PROFORMA FOR ANNUAL REPORT OF KVK JAINTIA HILLS

(JANUARY –DECEMBER ,2020)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		Email
	Office	FAX	
Krishi Vigyan Kendra, Jaintia Hills Government of Meghalaya, Directorate of Agriculture, P.O. Rymphum, Jowai District-Jaintia Hills Meghalaya- 793150	0365-222-3343	0365-222-3343	kvkjaintiahills@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Director of Agriculture, Lower Cleve Colony, District-East Khasi Hills Meghalaya Pin-793003	0364-2223228(DA) 0364-2227434(DH)	0364-2223228(DA) 0364-2227434(DH)	agri-meg@nic.in hort-meg@nic.in

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		Email
	Residence	Mobile	
Shri Dodo Paweth	Shillong	8731082414	kvkjaintiahills@gmail.com

1.4. Year of sanction: 2010

1.5. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)	Mobile No.
1	Sr. Scientist & Head	Shri Dodo Pasweth	Senior Scientist & Head	Seed Science & Technology	Level 45,600	56,100	1st February 2019	Permanent	ST	8731082414
2	Subject Matter Specialist	Smti. B Kharbamon	SMS	Horticulture	21000-39100	65,000	2nd July 2012	Permanent	ST	9862802309
3	Subject Matter Specialist	Smti. R Lyngdoh	SMS	Agronomy	21000-39100	65,000	2nd July 2012	Permanent	ST	8837325883
4	Subject Matter	Smti.J.K.Marak	SMS	Fisheries	21000-	63,100	16th May	Permanent	ST	7308346924

	Specialist				39100		2013			
5	Subject Matter Specialist	Shri Rimiki Suchiang	SMS	AH& Vet.	21000 - 39100	56,100	19th December 2018	Permanent	ST	7005033933
6	Subject Matter Specialist	Smt.Alethea Dympep	SMS	Agril.Extension	21000 - 39100	56,100	3rd March, 2020	Permanent	ST	7005724500
7	Programme Assistant (Technical)	Smti. D.Lyngdoh	Programme Assistant	Agriculture	13500 - 34800	35,400	19th December 2018	Permanent	ST	9863769940
8	Programme Assistant (Computer)	Smti. S. Pohthmi	Programme Assistant	Computer	13500 - 34800	39,900	1st May 2013	Permanent	ST	8575037048
9	Farm Manager	Shri. M Kharbuli	Farm Manager	Agriculture	13500 - 34800	42,300	2nd July 2012	Permanent	ST	9856710149
10	Accountant / Superintendent	Shri. Teibok Kharsyiemlieh	Accountant / Superintendent	M.Com	13500 - 34800	35,400	21th August 2019	Permanent	ST	986375787
11	Stenographer	SmtiWanbhahki Phawa	Stenographer	Class XII	7600-20200	26,300	1st Dec 2017	Permanent	ST	9774817259
12	Driver	Shri.H.Nangtein	Driver	Class VIII	7200-20200	21,700	4th July, 2019	Permanent	ST	9402503781
13	Driver	Shri. K Passah	Driver	Class VIII	7200-20200	22,400	1st Dec 2017	Permanent	ST	8119004390
14	Supporting staff	Shri. Urgentson Sukhlain	Supporting staff	Class VIII	7200-20200	18,000	1st July, 2019	Permanent	ST	8730056061
15	Supporting staff	Smt.Ioowanlin Shylla	Supporting staff	Class VIII	7200-20200	18,000	1st July, 2019	Permanent	ST	7640870337
	Total	**15**								

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) :**10.5 ha**
b. Total cultivable land with KVK (in ha): **10 ha**

c. Total cultivated land (in ha):

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	Nil
2.	Under Demonstration Units (pl. specify the name)	Nil
3.	Under Crops (Cereals, pulses, oilseeds etc.)	Nil
4.	Under vegetables (Pl. specify separately)	Nil

5.	Orchard/Agro-forestry	Nil
6.	Others (specify)	Nil

1.7. Infrastructural Development: Nil

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ATARI	Nil	Nil	Nil	October 2020	550	**Under construction**
2.	Farmers Hostel	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3.	Staff Quarters (6)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
4.	Demonstration Units (2)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
5	Fencing	Nil	Nil	Nil	Nil	Nil	Nil	Nil
6	Any Other (Pl. specify)	Nil	Nil	Nil	Nil	Nil	Nil	Nil

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	ML 05H- 5047	2011	6 lakh	952244	Good condition

C) Equipments & AV Aids

Sl. No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1.	Lenovo laptop with carry case M/N-590565598-Z560 S/N-CB05421311 Windows 7 home Basic 64 bit Preloaded code-00190047651822	19th April, 2011	42,890	Good condition
2.	HP Laserjet printer Printer P1007 S/N: VNFNP66829 Luminous 600VA UPS S/N: B04L050014230A6 Fax Sharp F051 S/N:0716223X Pendrive	20th April, 2011	15,200	Good condition
3.	Computer table Computer Chair	20th April, 2011	12,698	Good condition
4.	Plastic chairs,NILKAMAL-7007	26th April, 2011	21,000	Good condition

5.	Desktop Computer HP DC 7000 series Intel core 2 Duo, 2GB DDR2 RAM 8GB,250 GB, SATA HDR	31st March, 2011	40,035	Good condition
6.	Camera Nikon-Cool pix L	10th August, 2011	14,650	Out of order
7.	Camera Case Log	10th August, 2011	742	Out of order
8.	Steel Almira Computer table	8th March, 2012	9700	Good condition
9.	Officer table T>M>O>P-10	30th March, 2012	6000	Good condition
10.	Xerox machine (canon)	31st March, 2012	1,00,995	Under repairing
11.	Revolving officers Chair	24th May, 2012	5000	Good condition
12.	BenQ Projector Model No MS502P Serial No-PDM 8C04375000	30th March, 2013	25,000	Good condition
13.	Seed displayer single cavity (50 nos.) Seed displayer double cavity (50 nos.) Weighing scale 100 kg (1 no.) Herbarium for field use (10 nos.) Garden gloves (12 pairs) Soil testing kit (10 nos.) Insect box (53x45x9 cms) (10 nos.) Sealing machine (1 no.) Grinder/Mixer Bajaj (1 no.) Electronic balance 10 kg (1 no.) Specimen jars with Bakelite screw cap 1000 ml	29th March, 2014	1,55,232	Good condition
14.	GPS model No.Extrex 30	28th March, 2014	18,055	Good condition
15.	Foot sprayer with hyject lawn Knapsack sprayer Garden tools (2 sets)	31st March, 2014	18,666	Good condition
16.	PA system 1. Amplifier TZA-1500 DP 2. Speaker SRX-120 DX 3. Speaker stand STA 100 4. Microphone SHM-1000XLR 5. Microphone stand BMS 101 6. Gooseneck Microphone Gm 601LM 7. GMB 6C Base 8. Wireless Microphne AWM 520V2 9. IBALL Rocky Headphone 10. Speaker wire 11. Stabilizer	20th March, 2016	50,000.00	Good condition
17.	LCD Projector Screen 1. EB-U 32 Projector 2. Mounting Kit 3. VGA Cable 4. Laser Pointer Ball 5. Extension Plug 6. Stabilizer/UPS	31st March, 2016	1,00,000.00	Good condition

18.	Computer with accessories 1. PC Desktop 2. Laptop lenevo G50-Q31H/383 3. HP laser Jet Pro P1108 Printer 4. HP colour LJ printer MFP M277N/DW 5. HP Office jet 7110 Wide format Printer 6. HP Scan Jet G 4010 7. Extension Plug 8. Inverter	31st March, 2016	3,00,000.00	Good condition
19.	Furniture & Furnishing 1. Big steel almirah 2. Steel table 3. Visitors chair 'S' type 4. Computer table 5. Computer revolving chair 6. Slotted angle rack 7. Curtains	31st March, 2016	1,00,000.00	Good condition
20.	Mahindra Tractor 275NBPLT of 39HP 4.5 MT wheel Trailer body Drawer Frame with Pintel Hook for hitching Rotary Tiller Model No. R2/100 Multipurpose Leveler Model No. L 6"	28thFebruary, 2017	10,000,00.00	Good condition
21.	Hour Meter Farmers maintenance kit Canopy with steel frame Set of front wheel weight DP 2/26 Disc plough 2 furrows	30th June, 2017	80,710.00	Good condition
22.	Honda Portable Gen Set Model: EP 1000	5th March, 2019	30,000.00	Good condition

1.8. A). Details SAC meeting* conducted

**** Attach a copy of SAC proceedings along with list of participants***

Members present:

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

Sl. No	Farming system/enterprises
1.	Agri + Hort +AH +Fishery
2.	Agri + Hort +AH +Sericulture
3.	Agri + Hort +AH
4.	Agri + Hort +AH +Fishery

2.2 Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

Sl. No	Agro-climatic Zone	Characteristics
1.	Temperate and sub-alpine zone	This Zone confined in the Central plateau of the District in an area around Jowai, part of Thadlaskein Block. Climate: The rainfall in this Zone is around 2800 - 6000mm which is well distributed. It is Humid and moderately warm and severe winter. The dominant geographic unit is upper and middle plateau. Cropping pattern: The main crops grown in this zone are paddy, potato. Vegetables like Tomato, bean, radish, carrot is also grown wherever irrigation facility is available.
2.	Sub Tropical Hill Zone	This zone spread over the Northern Part of the District. i.e. (Laskein, and part of Thadlaskein,) are under this Zone. Climate : The average rainfall of this zone ranges from 1270- 2032 mm received in 150 days, about 70-80 % of annual rainfall is received during Monsoon period(June –September. The Maximum temperature of this Zone goes up to 20-27 ^{0} C during April-May while minimum temperature is 6-9 ^{0} C during December-January. It is humid and Warm. Land use pattern: One of the characteristic of this zone is high percentage of cultivable land. The dominant geographic unit Hills is rolling and undulating piedmont Cropping Pattern: Major crops grown in this Zone are Paddy and Maize.
3.	Mild Tropical Hill Zone	This zone situated in the south western part of the district. Climate: Humid and warm, Very high rainfall which ranges from 4000 - 10000 mm mostly covered by semi deciduous forest. The maximum temperature ranges from 25-30 ^{0} C and minimum temperature ranges from 8-10 ^{0} C. The dominant geographic unit is severely dissected and undulating low hills, gentle to steep slope. The land is mostly covered with forest, land sometimes acidic in nature having poor fertility. Due to steep and undulated topography with high rainfall, soils are prone to erosion leading to heavy degradation. The soil type varies from red to loamy. Cropping pattern: This zone has most of the forest area of the District .The population of this region depends on Natural resources and forest products like broomsticks etc. The main crops grown in this zone are areca nut, Betel leaf, banana, and fruits.

2.3 Soil type/s

The soil in Jaintia Hills is **red and loamy**. It is derived from the weathering of rocks such as granite, gneiss, diorites etc., which are relatively richer in clay forming minerals but poor in silica contents. The soils are thin, immature, light in colour, less clayey and less fertile. The exposed red and loamy soils are rich in organic matter and nitrogen due to humus contents from the litters of tree leaves, grasses etc. These are usually acidic and suitable for the cultivation of potato, fruits, rice in slopes and terraces.

Various soil attributes of the district are:

Soil attributes of the district

Soil depth	Soil texture	Soil drainage	Soil reaction (pH)	Organic carbon
Deep to moderately deep	Loamy	Excessive	Moderately acidic	Low to high

2.4. Area, Production and Productivity of major crops cultivated in the district

Sl No	CROPS	Area (ha)	Production (metric tonnes)	Average yield (kg/ha)
A. Cereals				
1.	Rice : (a)*Autumn*	116	324	5504
	(b)Winter	17814	29741	5217
	(c) Spring	112	30345	5448
	Total	18042	60410	16169
2.	Wheat	-	-	-
3.	Maize	5244	10559	4435
	Total Cereals	**23286**	**70969**	**20604**
B. SMALL MILLETS				
1.	Finger millet	154	189	1227
2.	Foxtail millet	46	64	1391

	Total small millets	**200**	**253**	**2618**
C.Pulses				
1.	Pea	125	150	2319
2.	Cowpea	60	76	2465
	Total pulses	**185**	**226**	**4784**
D. Oilseeds				
1.	Sesamum	44	41	1855
2.	Rape & mustard	94	86	1760
3.	Soybean	698	1117	3360
	Total oilseeds	**836**	**1244**	**6975**
E. Commercial Crops				
1.	Sugarcane	18	21	2221
	Total Commercial crops	**18**	**21**	**2221**
	Grand Total(A+B+C+D+E)	**24525**	**72713**	**37202**
Horticultural crops				
A. Fruits				
1.	Khasi Mandarin	1163	6779	10871
2.	Assam Lemon	41	158	7667
3.	Pomelo	56	67	4097
4.	Pine apple	88	778	17998
5.	Banana	365	1244	6815
6.	Papaya	20	67	6138
	Total fruits	**1733**	**9093**	**53586**
B. Vegetables				
1.	Frenchbean	245	1214	939
2.	Carrot	50	606	12120
3.	Cabbage	120	1251	10425
4.	Cauliflower	52	652	12538
5.	Turnip	66	462	7000

6.	Raddish	67	708	10567
7.	Beetroot	18	179	9944
8.	Brinjal	26	374	14385
9.	Ladies Finger	18	41	2278
10.	Bottlegourd	62	652	10516
12.	Pumpkin	126	632	5016
	Total vegetables	**850**	**6771**	**95728**
B. Tuber crops				
1.	Potato	219	1246	11974
2.	Sweet potato	1207	3799	6336
3.	Tapioca	33	361	21609
	Total tuber crops	**1459**	**5406**	**39919**
C. Spices				
1.	Ginger	369	4445	24558
2.	Turmeric	1867	13757	14685
3.	Chillies	73	76	2040
4.	Black pepper	41	29	1381
	Total spices	**2350**	**18307**	**42664**
D. Plantation crops				
1.	Arecanut	2054	3590	3207
2.	Rubber	665	67	217
3.	Tea	20	63	6250
Total plantation crops		**2739**	**3720**	**9674**
Grand total (A+B+C+D)		**9131**	**43297**	**241571**

Source: Directorate of Agriculture, Meghalaya, Shillong (2016-17)

2.5. Weather data

Month	Rainfall (mm)	Average	Temperature ^{0} C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
January ,2020						
February,2020						
March ,2020						
April, 2020						
May, 2020						
June ,2020						
July, 2020						
August, 2020						
September, 2020						
October, 2020						
November , 2020						
December, 2020						

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred	1285	2608 thousand litres of milk	-
Indigenous	96591	4216 thousand litres of milk	-
Buffalo	2619	175 thousand litres of milk	
Sheep			
Crossbred	-	-	-
Indigenous	8	-	-
Goats	37087	200 thousand litres of milk	-
Pigs			-
Crossbred	21630	13140 tonnes meat	-

Indigenous	40316		-
Rabbits	13	-	-
Poultry			
Hens			-
Desi	3,29,824	114.49 lakhs eggs	-
Improved	1,22,59	47.67 lakhs eggs	-
Ducks	7536	2.07 lakhs eggs	-
Turkey and others	Nil		

Source: Ministry of Agriculture and Farmers Welfare. Govt. of India, Department of Animal Husbandry, Dairying & Fisheries (19th Livestock Census District Wise Report 2012)

Fisheries

Category	**Area**	**Production**	**Productivity**
Fish	2.5	225	
Marine	-	-	-
Inland			
Prawn	**5.6**	3.360	-
Scampi	-	-	-
Shrimp	-	-	-

Source: Livestock Census, 2012

Details of Operational area / Villages

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Thadlaskein	Thadlaskein	Ummulong ,Nangbah,Niriang Namdong,Nongkhroh,Umladang,Nongkhroh,Mukhnang, Sohphoh,Nangbah, Wahiajer, Niriang, Mulum,Moodymmai, Niawkmai,Moosakhia,Jowai,Pynthorlangtein, Tyrshang, Pynthorwah Mynthong,	Potato,Groundnut, Paddy,Peach Pineapple,Guava,Ginger,Turmeric,Tomato,Brocolli,Pea Oyster Mushroom, Beekeeping, Poultry,Paddy, Piggery, Vegetables, Fishery	Susceptible to Late blight, Low production Improper orchard management ,No proper spacing followed Not yet grown in the district, Improper Nutrient Management Low cropping intensity Powdery mildew in pea if late sown High incidence of fruit flies Non utilization of natural resources Low production and income due to traditional beekeeping Low egg production due to breakage and cannibalism Storage pest infestation Low productivity due to winter stress and high incidence of diseases, Low productive and reproductive attributes of local chicken variety, No evaluation was conducted before, Low income from a unit farm area, improper utilization of resources, Unavailability of quality seeds	Canopy management Crop Production Performance evaluation Integrated Nutrient Management Crop Production IDM, Crop diversification IPM Income generation Pond Management IFS Biological management of diseases, Resource conservation Practices, On and Off farm waste management, Fodder Production, Fish breeding, Formation and management of SHGs
2.	Laskein	Laskein	Mootyrchiah, Nongkynrih,Phramer ,Moobakhon,Muthlongrim,Chilliangmyntang,Raliang,Shangpu	Potato,Groundnut, Paddy, Guava,Ginger,Turmeric, Vegetables,Ginger,Turmeric, Poultry, Piggery, Fishery, Oyster Mushroom,	Susceptible to Late blight, Low production Improper orchard management ,No proper spacing followed,Not yet grown in the district,Improper Nutrient	Canopy management Crop Production Performance evaluation Integrated Nutrient Management

			ng,Kyndongtuber, Mookyndeng	Beekeeping	Management, Low egg production due to breakage and cannibalism, Low productivity due to winter stress and high incidence of diseases, Low productive and reproductive attributes of local chicken variety, Low production, Not yet introduced in the district, No evaluation was conducted before, Low income from a unit farm area, improper utilization of resources, Unavailability of quality seeds	Crop Production IDM, Fodder Production, IPM, Crop diversification Income generation Pond Management IFS, Fish breeding Biological management of diseases, Resource conservation Practices, On and Off farm waste management, Crop diversification, Formation and management of SHGs
3.	Khliehriat	Khliehriat	Rymbai, Nonthymme, Mynsoo, Latyrke, Tongseng, Tuber Sohshrieh	Vegetables, Paddy, Piggery, Poultry, Fishery, Oyster Mushroom, Beekeeping	Storage pest infestation , Low productivity due to winter stress and high incidence of diseases Low productive and reproductive attributes of local chicken variety, Not yet introduced in the district, Low production, No evaluation was conducted before, Low income from a unit farm area, improper utilization of resources, Unavailability of quality seeds	Performance evaluation Integrated Nutrient Management Income generation Pond Management, Fish breeding IFS, Piggery, Poultry, Biological management of diseases, Resource conservation Practices, On and Off farm waste management, Formation and management of SHGs
4.	Amlarem	Amlarem	Moosakhia, Mookaiaw, Sohmynting	Vegetables, Poultry, Fishery, Oyster Mushroom, Beekeeping	Low productive and reproductive attributes of local chicken variety, Not yet introduced in the district, Low income from a unit farm area, improper utilization of resources, Unavailability of quality seeds	Pond Management, IFS, Piggery, Poultry, Resource conservation Practices, Fish breeding, Formation and management of SHGs

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during January-December, 2019

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	2	2	10	10	1	1	5	10
Horticulture	4	4	14	14	3	3	20	27
Plant Protection	1	1	5	5	1	1	2	2
Agril.Extension	3	3	255	255	1	1	45	45
Animal Science	3	3	14	14	2	2	25	25
Fisheries	2	2	8	8	2	2	25	25
Total	**15**	**15**	**306**	**306**	**10**	**10**	**122**	**134**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers								
Rural youth								
Extn. Functionaries								
SHG								
Total								

Seed Production (ton.)	Planting material (Nos. in lakh)
5	6

Target	Achievement	Target	Achievement
		-	-

Note: Target set during last Annual Zonal Workshop

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
Agronomy									
1.									

2.									
3.									
4.									
Horticulture									
1.									
2.									

3.									
4.									
5.									
6.									
7.									
Plant Protection									
1.									
2.									
3.									
4.									
5.									
Fisheries									
1.									
2.									

3.									
4.									
Animal Science									
1.									
2.									
3.									
4.									
Agricultural Extension									
1.									
2.									
3.									
4.									

3. B. Abstract of interventions undertaken during January-December, 2020

3.1 Achievements on technologies assessed and refined during January-December, 2020

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation/ Performance evaluation										
Seed / Plant production										
Weed Management										

Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
Canopy management										
TOTAL										

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.*

A.2. Abstract of the number of technologies **refined*** in respect of crops/enterprises

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Commercial Crops**	**Vegetables**	**Fruits**	**Flower**	**Plantation crops**	**Tuber Crops**	**TOTAL**
Varietal Evaluation/ Performance evaluation	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-

Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitery**	**Fisheries**	**TOTAL**
Performance evaluation of breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
IFS								
TOTAL								

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitery**	**Fisheries**	**TOTAL**
Evaluation of Breeds								
Nutrition Management								

Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.5. Results of On Farm Testing (OFT)

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable)
Agronomy									
1.						•			
Horticulture									
1.	Performance evaluation of Guava	Not yet grown in the district	Performance evaluation of Guava Varieties *(Megha Supreme, Megha Magenta & Megha Wonder)*	Guava Varieties *(Megha Supreme, Megha Magenta & Megha Wonder)*	2	Ongoing	Plants are adapting well	Growth is good	Ongoing
2.	Canopy management of peach	Lack of canopy management	Canopy management of peach	Peach var. *Alton*	3	**Demo:** **No of fruits- 210** Yield/tree=17.8kg/tree Yield/ha= 6.25t/ha **Farmer's practice:** **No of fruits- 138** Yield /tree= 11.2kg/tree Yield/ha=4.2t/ha	There is an increase in productivity	Early fruiting and more no of fruits	**Demo**=2.6:1 **Farmer's practice**=2.18:1
3.	Performance evaluation of peach	Not yet grown in the district	Performance evaluation of Peach varieties	Peach varieties *Pratap, Flordasun*	2	Ongoing	Flowering early than	Good performance	Ongoing

			Pratap, Flordasun				local		
Plant protection									
1.									
2.									
Agricultural Extension									
1.						i.			
2.						1.			
Animal Science									
1	Low cost climate resilient environment-affinitive pigpen model	Low productivity due to winter stress and high incidence of diseases	Low cost climate resilient environment-affinitive pigpen model	Piggery	5	**Technology:** • Body weight at 3 months old: 8.4 kg • Lameness: Nil • Skin disease: Nil • Diarrhoea: Nil • Respiratory problem: Nil • Mortality: Nil **Farmer's practice:** • Body weight at 3 months old: 7.1 kg, • Lameness:6.6%	Well accepted by the farmers till date	Little bit modification required which the researcher is doing right now	Ongoing since the technology started during the month of November 2019

						• Skin disease: 12.5% • Diarrhoea:10.2% • Respiratory problem: 2.8% • Mortality: 2%			
2	Innovative egg laying cabin	Low egg production due to breakage and cannibalism	Innovative egg laying cabin	Poultry	5	**Technology:** • Egg production:320 • Egg breakage: Nil • Soiled eggs: Nil • Dead due to cannibalism: Nil **Farmer's practice:** • Egg production:320 • Egg breakage: 120 • Soiled eggs: 240 • Dead due to cannibalism: 15 (Out of 50 birds)	Technology is accepted. Since the technology is on its first ever trial, more feedback are awaited	It works well with the layer breeds like BV-380	Final result is awaited
3	Integrated Farming System	Low income from a unit farm area, improper utilization of resources	Integrated Farming system	Pig cum Fish cum Horticulture	5	On going	Till date it is going well	-	On going

Fisheries									
1	IFS	Low income from a unit farm area, improper utilization of resources	Integrated livestock-cum-fish-cum-horticulture farming	1.Fishery component Fish species: Indian Major carps & Exotic carps. Stocking density: 10000 nos./ha Stocking ratio: Catla (2.5): Rohu (2): Mrigal (1): Silver carp (1.5): Grass carp (1): Amur Common carp(2) Application of lime@1000kg/ ha 2.Piggery: Hampshire cross (40 piglet/ ha) 3.Horticulture: Vegetables in the dyke, Fruit trees (Guava) on the surronding area					8months completed

Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermicompost kg/unit area.
***** Give details of the technology assessed or refined and farmer's practice***

3.2 Achievements of Frontline Demonstrations during January-December, 2019

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous years and popularized during January-December, 2019and recommended for large scale adoption in the district

Sl. No	Crop and Variety/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1					
2					
3					
4					
5					

**** Thematic***

b. Details of FLDs conducted during reporting period (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)	No. of farmers/ demonstration	Reasons for shortfall in	Farming situation (Rainfed/	Status of soil (Kg/ha)

										achievement	Irrigated, Soil type, altitude, etc)	N	P	K
					Proposed	Actual	SC/ST	Others	Total					
Agronomy														
1.														
Horticulture														
1.	Tomato, broccoli	Vegetable based cropping system	Vegetable based cropping system : Tomato followed by broccoli	*Kharif* and *rabi* April-December 2017	3	6.5	12	-	12	-	Irrigated	-	-	-
2.	Pineapple	Production technology	Double row planting system of pineapple variety Queen	Whole year 2017-18	3	4	5	-	5	-	Rainfed	-	-	-

3.	Ginger, Turmeric	Organic Nutrient Management of ginger and turmeric	Organic Nutrient Management of ginger and turmeric (Vermicompost + cowdung manure + bio-inoculation with azotobacter and PSB)	Kharif and rabi season April-December 2017	3	8	11		11	-	Rainfed	-	-	-
Plant Protection														
1.	Mushroom	Income generation	Evaluation of Paddy straw mushroom in Jaintia Hills	-	0.5	0.5	5	-	5	Does not arise	Irrigated	-	-	-
2.	Scientific beekeeping	Income generation	Scientific beekeeping	-	1	1	3	-	3	Does not arise	Rainfed	-	-	-
3.	Peach	IPM	Monitoring and management of Fruit flies in Peach	-	1	1	2	-	2	Does not arise	Rainfed	-	-	-

Agricultural Extension														
1.	Paddy	Impact assessment	Impact assessment on performance of paddy where FLD was conducted during 2014	*Kharif*	-	-	30	-	30	-	Rainfed	-	-	-
2.	Ginger	Impact assessment	Impact assessment on performance of ginger where FLD on package of practices and biological control of ginger var. Nadia was conducted during 2016-17	*Kharif*	-	-	30		30	-	Rainfed	-	-	-

c. Performance of FLD on Crops during January-December, 2019

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
Agronomy																		
1.	Paddy	Crop production	2	33.1	21.36	35.49	34.3	31.8	-	-	37575	99339	61764	2.6:1	44000	96120	52120	2.1:1
Horticulture																		
1	Tomato, broccoli	Vegetable based cropping system		Broccoli =157 Tomato=235	Tomato=211	46.17	Broccoli = 162 Tomato= 257	Broccoli = 125 Tomato= 210			244500	627500	383000	2.57	105000	211000	106000	2.01
2	Pineapple	Production technology		Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing		Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
3	Ginger,	Organic Nutrient		Ginger=	115.2	28.44	172	145	-	-	175000	644000	4690	3.6	1550	46080	3058	2.97

	Turmeric	Management of ginger and turmeric		161									00	8	00	0	00	
				Turmeric=121	78.4	35.2	130.2	104	-	-	125500	423500	298000	3.37	105000	274400	169400	2.61
Plant Protection																		
1.	Peach (var.*Alton*)	IPM	5 Planting materials: 500 plants Spacing 4.5 *4.5 m	60	45	25	65	50	-	-	85000	177000	92000	2.08:1	75000	130000	55000	1.73:1

***H-Highest recorded yield, L- Lowest recorded yield**

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1							
2							
3							
4							

e. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
-	-	-	-	-	-	-	-	-

**** Field efficiency, labour saving etc***

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of union	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1.	Vanaraja	Poultry	Rural poultry production with improved chicken variety i.e. Vanaraja	15	15	20 birds/unit	**Annual egg production**:150 eggs per bird **Average egg weight:**50 gram	**Annual egg production:**80 eggs per bird **Average egg weight:**50 gram	96.66% (Egg production)	**AFE:** 165 days **Average body weight:** 2.4 kg	**AFE:** 184 days **Average body weight:** 1.5 kg	4800	12100	7300	2.52:1	3460	5460	2000	1.6:1	Excellent performance of: Success story of 2019-20 Birds distributed by KVK: 400 nos. Spread of technology till date: 2050 no. of

																			birds

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1.	Fish sp.: Catla, rohu,mrigal, silver carp, grass carp, common carp	Pond Management	**Pre-stocking management i.**Weed clearance manually, ii.Eradication of weed and predatory fishes: By complete draining &repeated	13	13	10000 N/Ha	Yield= 1.42t/ha	Yield = 0.25t/ha	>100%			150252	294200	143948	1.9:1	41200	51840	10640	1.2:1	Performing well

			netting iii.Liming: Basal dose i.e 25% 0f 800kg/ha (PH 6-6.5) iv.Manuring: Basal dose i.e. 25% of 15tons/ha **2.Stocking:**Fish sp**.** Catla, rohu,mrigal, silver carp, grass carp and common carp i)Stocking density: 10000 nos./ha ii)Stocking ratio: Catla (2.5): Rohu (2): Mrigal (2): Silver carp (1.5): Grass carp (1): Common carp (1) **3.Post stocking:** i) Supplementary feed: 2-3%																	

			body weight(MOC &Rice Bran 1:1 ratio) ii)Organic manure:Monthly dose@ 1000kg/ha ii)Liming :Monthly dose @65kg/ha																
2.	Catla, rohu,mrigal, silver carp, grass carp, local common carp and amur common carp	Composite fish culture	Popularization of amur common carp under composite fish culture system	10	10	10000 Nos./ha	Fish yield 1.250t/ha	Fish yield-0.27 t/ha	>100%			122050	250000	127950	2:1	37250	54400	17150	1.4:1	Performing well
3.	Common carp	Carps Breeding	Common carp Breeding and seed production	3	3	5000nos/ha	Technology Total no of egg produced=222000 Survival rate=30% BC ratio=2:1					194225	75220	119105	2.5	2320	1820	500	1.2:1	Performing well

							Farmers practice Total no of egg produced=70000 Survival rate=8% BC ratio= 1.2:1												

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***
Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iv)Other enterprises

Sl. No.	**Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.**	**Thematic area**	**Name of Technology**	**No. of farmers**	**No. of units**	**Major Performance parameters / indicators**		**% change in the parameter**	**Other parameters (if any)**		**Econ. of demo. (Rs./Ha.)**				**Econ. of check (Rs./Ha.)**				**Remarks**
						Demo	**Check**		**Demo**	**Check**	**GC****	**GR****	**NR****	**BCR****	**GC**	**GR**	**NR**	**BCR**	

1.	Mushroom	Income generation	Popularization of all year round Oyster mushroom cultivation for enhancing farmers income	15	15	2 kg mushroom/ bag	-	-	-	-	20500	50550	30050	2.5:1	-	-	-	-	Difficulty in getting spawn
2.	Scientific beekeeping	Income generation	Popularization of Scientific Beekeeping for enhancing farmers income	10	10	1.Yield (kg) /bee box-5	1.Yield (kg) /traditional box-3	66.6	-	-	22500	37500	15000	1.76:1	18500	23500	5000	1.27:1	Beneficial in IFS system, orchard and forest area
3.	Berkeley compost	On and off farm waste management	On and off farm waste management through Berkeley compost	10	15	Yield 9q/ha	-	-	-	-	6100	13500	7400	2.2:1	-	-	-	-	
4.	Impact assessment	Impact assessment	Impact assessment on performance of paddy where FLD was conducted during	30	30	Potential yield= 62q/ha Demonstration yield = 52.8q/ha Technology gap =	Farmers' yield = 41.6q/ha		-	-	-	-	-	-	-	-	-	-	Major problem faced by the farmers is dependence on monsoon

			2014-15			9.2q/ha Extension gap = 11.2q/ha Extension Index %= 82.14%												
5.	Impact assessment	Impact assessment	Impact assessment on performance of ginger where FLD on package of practices and biological control of ginger var. Nadia was conducted during 2016-17			Potential yield= 200q/ha Demonstration yield = 125 q/ha Technology gap = 75q/ha Extension gap = 40q/ha Extension Index %= 187.50%	Farmers' yield = 85q/ha		-	-	-	-	-	-	-	-	-	-	Major problem is lack of scientific method of cultivation

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(v) Farm Implements and Machinery

Sl. No.	Name of implement	Crop	Name of Technology demonstrated	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)		% change in the parameter	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per unit etc.)	Remarks
						Demo	Check				
-	-	-	-	-	-	-	-	-		-	-

f. Performance of FLD on Crop Hybrids

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)			
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
-	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

H-Highest recorded yield, L- Lowest recorded yield

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

3.3. Achievements on Training during January-December, 2020

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programme (*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Trainings (Courses)			Participants																			
				General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total		Grand Total (x + y)
	On - Campus (1)	Sponsored On * (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	
I. Crop Production																						
II. Horticulture																						
III Soil Health and Fertility Management																						
IV Livestock Production and Management																						
V Home Science/Women empowerment																						
VI Agril. Engineering																						
VII Plant Protection																						
Income generation	-														-	-		-			-	
VIII Fisheries																						
IX Production of Inputs at site																						
X Capacity Building and Group Dynamics																						
XI Agro-forestry																						

3.3.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Trainings (Courses)			Participants																			Grand Total
				General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
I. Crop Production																							
Organic Agriculture	2		2							12		9		21		12		9		21		21	
Soil health management	1		1							-		95		95		-		95		95		95	
Natural Resource Conservation Practices	2		2							12		44 +1 4+ 12											
II. Horticulture																							

a) Vegetable Crops																						
Organic production of ginger and turmeric	4		4							8		47		55		-		8		47		55
Production of biopesticides	1		1							8		-		8		8		-		8		8
Package of practices of pineapple cultivation	2		2							9		15		24		9		15		24		24
b) Fruits																						
c) Ornamental Plants																						
d) Plantation crops																						
e) Tuber crops																						
f) Spices																						
g) Medicinal and Aromatic Plants																						
III. Soil Health and Fertility Management																						

IV Livestock Production and Management																						
Dairy Farming	1		1							11		10		21		11		10		21		21
Poultry farming	1		1							11		10		21		11		10		21		21
V Home Science/Women empowerment																						
VI Agril. Engineering																						
VII Plant Protection																						
														-								
														-								
VIII Fisheries																						

Rice-Fish Integration	1		1							6		0		6		6		0		6		6
Scientific fish rearing and management	9		9							10		46		56		10		46		56		56
Integrated Farming System	5		5							16		1		17		16		1		17		17
Composite Fish Culture	6		6							4		14		18		4		14		18		18
IX Production of Inputs at site																						
X Capacity Building and Group Dynamics																						
XI Agro-forestry																						
TOTAL																						
(B) RURAL YOUTH																						
3.3.3. Achievements on Training <u>Rural Youth</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)																						

Thematic area	**No. of Trainings (Courses)**			**Participants**									**Grand Total**
				General			**SC/ST**			**Total**			
	On		**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	

	(1)	Sp On * (2)	(1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+ 6)	Sp. On (b = 5+ 7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+ 8)	Sp. On (5+ 9)	On (6+10)	Sp. On (7+11)	On (x = a +c)	Sp. On (y= b +d)	(x + y)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.3.4. Achievements on Training of <u>Rural Youth</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Trainings (Courses)			Participants																		Grand Total
	Off	Sp Off	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Integrated Nutrient Management																						
SHG																						
Mushroom Production																						
Scientific bee keeping																						
Value																						

addition																						
TOTAL																						

C. Extension Personnel

3.3.5. Achievements on Training of Extension Personnel in Off Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	Grand Total (x + y)
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.3.6. Achievements on Training of Extension Personnel in On Campus including Sponsored Off Campus Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Trainings (Courses)			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Resource Conservation Technology																						
Organic Agriculture																						

Crop Production																						
Integrated Nutrient Management																						
Mushroom Production																						
Scientific bee keeping																						
Integrated Pest Management																						
Integrated Disease Management																						
Carp breeding and seed production																						
Integrated Farming System																						
Piggery																						
Poultry																						
Formation of SHGs																						
Nursery management of vegetables																						
Total																						

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Crop Production															
Agronomy	Integrated Nutrient Management	Integrated Waste Management	28.01.19	1	Umladang	Farmers & Farm Women				18	12	30	18	12	30

Agronomy	Integrated Nutrient Management	Organic Waste Management	15.01.19	1	Tyrshang	Rural Youth				0	15	15	0	15	15
Agronomy	Weed management	Critical period in crop weed management	12.02.19	1	Mootyrshiah	Famer & farm women				9	39	48	9	39	48
Agronomy	Cropping system	Nutritional benefits of millets	05.03.19	1	Larnai	Farmers and farm women				12	7	19	12	7	19
Agronomy	Value addition	Preparation of pickle	06.03.19	1	Mihmyntdu	Children Home for Girls , Mihmyntdu				0	12	12	0	12	12
Agronomy	Integrated nutrient management	Berkeley compost	11.03.19	1	Wahiajer	Famer & farm women				23	23	46	23	23	46
Agronomy	Integrated Nutrient Management	On and Off farm waste management	16.04.19	1	Mynkre	Famer & farm women				0	16	16	0	16	16
Agronomy	Crop diversification	Crop diversification	08.04.19	1	Mynthlu	Famer & farm women				10	15	25	10	15	25
Agronomy	Fodder Production	Introduction to Fodder crops	15.04.19	1	Niawkmai	Famer & farm women				12	7	19	12	7	19
Agronomy	Integrated Nutrient Management	Composting	16.04.19	1	Mynkre	Famer & farm women				-	16	16	-	16	16

Agronomy	Organic farming	Organic farming	23.04.19	1	Nongkhroh	Famer & farm women				3	36	39	3	36	39
Agronomy	Organic farming	Introduction to Organic farming	24.04.19	1	Namdong A	Famer & farm women				4	12	16	4	12	16
Agronomy	Organic farming	Seed treatment with biofertilizers	8.05.19	1	Mulum	Famer & farm women				10	9	19	10	9	19
Agronomy	Soil Health and Fertility Management	Soil testing	13.05.19	1	Rymbai	Famer & farm women				17	11	28	17	11	28
Agronomy	Soil Health and Fertility Management	Seed treatment with biofertilizers	15.05.19	1	Niawkmai	Famer & farm women				13	9	22	13	9	22
Agronomy	Soil Health and Fertility Management	Seed treatment with biofertilizers	18.05.19	1	Cham cham	Famer & farm women				-	10	10	-	10	10
Agronomy	Organic farming	Seed treatment with biofertilizers	30.05.19	1	Umladang	Famer & farm women				16	13	29	16	13	29
Agronomy	Integrated nutrient management	Berkeley compost	23.06.19	1	Wahiajer	Farm women					23	23		23	23
Agronomy	Soil Health and Fertility Management	On and off farm waste management	23.07.19	1	Namdong B	Famer & farm women				39	4	43	39	4	43

	Organic Farming	Organic weed management	24.07.19	1	Wahiajer	Famer & farm women				39	4	43	39	4	43
Agronomy	Resource conservation Practices	Paddy cum Fish	16.08.19	1	Mulum	Famer & farm women				5	25	30	5	25	30
Agronomy	Resource conservation Practices	Moisture Conservation Technologies	28.08.19	1	Namdong B	Famer & farm women				16	9	25	16	9	25
Agronomy	Soil Health and Fertility Management	Vermicomposting	11-17.11.19	7	Thadlaskein hub	Famer & farm women				6	7	13	6	7	13
Agronomy	Resource conservation Practices	Soil Testing Soil moisture conservation practice	29.11.19	1	Mokynde ng	Famer & farm women				17	32	49	17	32	49
Agronomy	Resource conservation Practices	Soil moisture conservation	19.12.19	1	Sohphoh	Famer & farm women				3	11	14	3	11	14
Plant Protection															
Plant Protection	Income generation	All year round Oyster Mushroom cultivation for enhancing farmers income	10.01.2019	1	Niawkmai	Farmers and farm women				9	27	36	9	27	36
Plant Protection	Biological management of diseases	Identification and Eco-friendly management of pests and diseases	15.01.2019	1	Nongkhroh	Farmers and farm women				3	17	20	3	17	20

		in Pea													
Plant Protection	Bee keeping	Scientific beekeeping	31.01.2019	1	Wahiajer-East Jaintia Hills	Farmers and farm women				8	0	8	8	0	8
Plant Protection	Bee keeping	Scientific beekeeping	05.3.19	1	Larnai	Farmers and farm women				12	7	19	12	7	19
Plant Protection	Income generation	Popularization of all year round Oyster mushroom cultivation for additional income generation	16.04.19	1	Myngkre	Farmers and farm women				0	19	19	0	19	19
Plant Protection	Biological management of diseases	Management of soft rot disease in Ginger by rhizome seed treatment with *Trichoderma*	17.04.19	1	Mukhnang	Farmers and farm women				5	14	19	5	14	19
Plant Protection	Income generation	Scientific beekeeping for enhancing farmers income	24.04.19	1	Namdong	Farmers and farm women				3	36	39	3	36	39
Plant Protection	Biological management of diseases	Advantages and use of botanicals	07.05.19	1	Wahiajer	Farmers and farm women				20	10	30	20	10	30
Plant Protection	Income generation	Popularization of all year round Oyster mushroom cultivation for additional income generation	08.05.19	1	Saphoh	Farmers and farm women				20	10	30	20	10	30

		Pests and disease management in mushroom													
Plant Protection	Biological management of diseases	Eco friendly management of pests and disease in Potato	09.05.19	1	Plongingkhaw	Farmers and farm women				10	20	30	10	20	30
Plant Protection	Biological management of diseases	Scientific beekeeping for enhancing farmers income Types of beekeeping accessories and their uses	10.05.19	1	Larnai	Farmers and farm women				4	24	28	4	24	28
Plant Protection	Biological management of diseases	Eco friendly management of pests and disease in Paddy Seed treatment of Paddy with Trichoderma	13.05.19	1	Rymbai	Farmers and farm women				34	22	56	34	22	56
Plant Protection	Income generation	An introduction to different types of mushroom Preparation and pasteurization procedure for compost necessary to cultivate mushroom	21.05.19	1	Niawkmai	Rural Youth				15	45	60	15	45	60

Plant Protection	IPM	Crop rotation to reduce endemic pests and diseases in Potato Safe storage of Potato seeds to get good seeds	07.06.19	1	Plongingkhaw	Farmers and farm women				15	15	30	15	15	30
Plant Protection	IPM	IPM and IDM in Paddy Seedling root dip treatment with biopesticides	14.06.19	1	Khanduli	Farmers and farm women				10	20	30	10	20	30
Plant Protection	Biological management of diseases	Eco- friendly management of pests and diseases in Mushroom	27.06.19	1	Saphoh	Farmers and farm women				15	15	30	15	15	30
Plant Protection	Income generation	Demonstration on colony inspection of bee boxes Demonstration on bee equipments and accessories	25.06.19	1	Namdong	Farmers and farm women				10	20	30	10	20	30
Plant Protection	IPM	IPM & IDM in Paddy	23.07.19	1	Umjalasiaw	Farmers and farm women				15	24	39	15	24	39
Plant Protection	Biological management of diseases	Demonstration on- Seedling root dip treatment with bio pesticides	04.07.19	1	Nongkynrih	Farmers and farm women				4	16	20	4	16	20

Plant Protection	Income generation	Scientific beekeeping for income generation	20.08.19	1	Moodymmai	Farmers and farm women				7	15	22	7	15	22
Plant Protection	Income generation	All year round Oyster mushroom production for income generation	19.08.19	1	Moosakhia	Rural Youth				1	19	20	1	19	20
Plant Protection	Income generation	Mushroom production techniques	18.09.19	1	Thadlaskein Horticulture Hub	Farmers and farm women				7	8	15	7	8	15
Plant Protection	Income generation	Oyster Mushroom production for doubling farmers income	25.11.19	1	Nongsning	Farmers and farm women				0	30	30	0	30	30
Plant Protection	Income generation	Oyster Mushroom production for doubling farmers income	29.11.19	1	Myngkre	Farmers and farm women				0	37	37	0	37	37
Plant Protection	Income generation	Oyster Mushroom production for doubling farmers income	15-21.11.19	7	Moodymmai	Rural Youth				5	20	25	5	20	25
Plant Protection	Income generation	Rural youth on Scientific beekeeping	04.11.19 05.11.19	2	Shangpung	Rural Youth				30	35	65	30	35	65
Plant	Income generation	Rural youth on Scientific	2-6.12.19	5	Thadlaskein	Rural Youth				25	5	30	25	5	30

Protection		beekeeping													
Plant Protection	IPM	Training and demonstration on safe storage of paddy seeds	09.12.19	1	Mukhnang	Farmers and farm women				9	8	17	9	8	17
Plant Protection	Biological management of diseases	Eco friendly management of pests and diseases in Pea	16.12.19	1	Namdong	Farmers and farm women				0	15	15	0	15	15
Plant Protection	Biological management of diseases	Eco friendly management of pests and diseases in Ginger	19.12.19	1	Sohphoh	Farmers and farm women				17	16	33	17	16	33
Horticulture															
Horticulture	Integrated crop management	Cropping systems of horticultural crops	22.08.19	1	Jalaphet	Farmers and farm women				42	32	74	42	32	74
Horticulture	Crop production	Production of vegetables in rabi season	28.08.19	1	Namdong	Farmers and farm women				9	18	27	9	18	27
Horticulture	Waste management	Preparation of Berkeley compost	22.08.19	1	Jalaphet	Farmers and farm women				42	32	74	42	32	74
Horticulture	Crop production	Double row planting of pineapple	28.08.19	1	Namdong	Farmers and farm women				9	18	27	9	18	27
Horticulture	Crop production	Nursery management of horticultural crops	7-14.09.2019	12	Thadlaskein hub	Farmers and farm women				10	7	17	10	7	17

Horticulture	Crop production	Nursery raising of vegetables and its management Propagation of ornamental crops Propagation of fruit crops	13.09.19	3	Jowai	Farmers and farm women				10	7	17	10	7	17
Horticulture	Organic farming	Jaivikheti	02.10.19	1	Lumkhudung	Farmers and farm women				18	32	51	18	32	51
Horticulture	Crop production	Community farming	22.10.19	1	Lumbihsyntu	Farmers and farm women				43	85	128	43	85	128
Horticulture	Crop production	Kitchen gardening	04.11.19	2	Shangpung	Farmers and farm women				30	35	65	30	35	65
Horticulture	Crop production	Promotion of vegetable cultivation	30.11.19	1	Myntkung	Farmers and farm women				10	25	35	10	25	35
Horticulture	Crop production	Promotion of vegetables cultivation in fallow paddy fields	05.12.19	1	Jowai	Farmers and farm women				30	58	78	30	58	78
Fisheries															
Fisheries	IFS	Piggery cum fishery cum horticultural crops	08.05.19	1	Sohphoh	Farmer and farm women				6	9	15	6	9	15
Fisheries	Composite fish culture	Popularisation of Amur carp and local common carp in rice fish system	13.05.19	1	Lyrnai	Farmers and farm women				13	2	15	13	2	15

Fisheries	Pond management	Pre and Post stocking management of pond for better water quality for fish production	17.05.19	2	Wahiajer	Farmers and farm women				7	3	10	7	3	10
Fisheries	Fish breeding	Carp breeding and seed production	22.05.19	1	Nangbah	Farmer and farm women				10	5	15	10	6	16
Fisheries	Composite fish culture	Popularisation and introduction of Amur carp in composite fish culture system	23.05.19	1	Namdong	Farmers and farm women				8	2	10	8	2	10
Fisheries	Fish breeding	Carp breeding and seed production	29.05.19	1	Nangbah	Farmer and farm women				10	5	15	10	4	14
Fisheries	Composite fish culture	Popularisation of Amur carp and local common carp in composite fish culture system	07.06.19	1	Wahiajer	Farmers and farm women				6	2	8	6	2	8
Fisheries	IFS	Piggery cum fishery cum horticultural crops	11.06.2019	1	Wahiajer	Farmers and farm women				-	23	23	-	23	23
Fisheries	Fish breeding	Carp breeding and seed production	19.06.19	1	Kliehtyrchi	Farmer and farm women				8	7	15	8	7	15

Fisheries	Fish breeding	Carp breeding and seed production	27.06.19	1	FTI,Rymphum Jowai	Extension personnel				04	11	15	04	11	15
Fisheries	Composite fish culture	Popularisation of Amur carp and local common carp in composite fish culture system	26.07.2019	1	Namdong	Farmers and farm women				6	2	8	6	2	8
Fisheries	Pond management	Scientific management of pond for better fish production	29.07.2019	1	Namdong	Farmers and farm women				6	3	9	6	3	9
Fisheries	Pond management	Scientific management of pond for better fish production	21.08.2019	1	Namdong	Farmers and farm women				6	3	9	6	3	9
Fisheries	Pond management	Pre and Post stocking Management in composite fish culture	02.09.2019	1	Mulum	Farmers and farm women				10	17	27	10	17	27
Fisheries	Pond management	Pond management in composite fish culture	29.10.2019	1	Amlarem	Farmers and farm women				6	3	9	6	3	9
Fisheries	Pond management	Pond management in composite fish culture	14.11.2019	1	Amlarem	Farmers and farm women				12	4	16	12	4	16
Fisheries	IFS	Piggery cum fishery cum	30.11.2019	1	Mynkthung	Farmers and farm				10	30	40	10	30	40

		horticultural crops				women									
Animal Science															
Animal Science	Livestock Production and management	Improved poultry production by introducing improved chicken varieties	12.2.19	1	Mootyrshiah	Farmers and farm women				13	31	42	13	31	42
Animal Science	Livestock Production and management	Scientific poultry farming	15.02.19	1	Mookyndur	Farmers and farm women				-	80	80	-	80	80
Animal Science	Livestock Production and management	Pig farming	20.02.19	1	Mookyndur	Farmers and farm women				-	80	80	-	80	80
Animal Science	Value addition	Preparation of meat pickle	6. 3.19	1	Mihmyntdu	Children Home for Girls , Mihmyntdu				0	12	12	0	12	12
Animal Science	Fodder production	Fodder production	5.3.19	1	Larnai	Farmers and farm women				12	7	19	12	7	19
Animal Science	Livestock Production and management	Integrated Farming System	8-9.3.19	2	KVK Jaintia Hills	Extension personnel				13	4	17	13	4	17

Animal Science	Piggery	Scientific pig farming	16.4.19	1	Niawkmai	Farmers and farm women				4	12	16	4	12	16
Animal Science	Piggery	Integrated Farming System	23.4.19	1	Nongkhroh	Farmers and farm women				3	36	39	3	36	39
Animal Science	Piggery	Integrated Farming System	24.4.19	1	Namdong	Farmers and farm women				6	16	22	6	16	22
Animal Science	Poultry	Poultry farming	8.05.2019	1	Rymbai,	Farmers and farm women				17	11	28	17	11	28
Animal Science	Piggery	Pig farming	13.05.2019	1	Niawkmai	Farmers and farm women				13	9	22	13	9	22
Animal Science	Piggery	Integrated Farming System	15.05.2019	1	Umladang	Farmers and farm women				16	13	29	16	13	29
Animal Science	Goatery	Goatery farming	23.7.19	1	Namdong B	Farmers and farm women				39	4	43	39	4	43
Animal Science	Goatery	Goatery farming	16.8.19	1	Mulum	Farmers and farm women				25	3	28	25	3	28
Animal Science	Fodder production	Fodder production	4.9.19	1	Jowai	Farmers and farm women				14	1	15	14	1	15

Animal Science	Piggery	Pig farming	30.10.2019	1	Jowai	Farmers and farm women				33	61	94	33	61	94
Animal Science	Poultry	Poultry farming	04.11.19	1	Shangpung	Farmers and farm women				45	16	61	45	16	61
Animal Science	Piggery	Pig farming	22.11.19	1	Mookyndeng	Farmers and farm women				10	20	30	10	20	30
Animal Science	Piggery	Silage preparation using sweet potato vines	19.12.2019	1	Umjalasiaw	Farmers and farm women				4	13	17	4	13	17
Ag.Extension															
Ag.Extension	Formation and management of SHGs	Training on management of Self Help Group	9.01.2019	1	Niawkmai	Farmers and farm women				9	27	36	9	27	36
Ag.Extension	Formation and management of SHGs	Training on management of Self Help Group	7.02.2019	1	Umbluh	Farmers and farm women				12	29	41	12	29	41
Ag.Extension	Formation and management of SHGs	Training on management of Self Help Group	12.03.2019	1	Wahiajer	Farmers and farm women				10	5	15	10	5	15
Ag.Extension	Formation and management of SHGs	Training on management of Self Help Group	13.03.2019	1	Mustem	Farmers and farm women				7	6	13	7	6	13
Ag.Extensio	Centrally and state sponsored	Training on Centrally and	08.04.19	1	Mynthlu	Farmers and farm				4	19	23	4	19	23

n	schemes	state sponsored schemes				women									
Ag.Extension	Centrally and state sponsored schemes	Training on Centrally and state sponsored schemes	16.04.19	1	Niawkmai	Farmers and farm women				4	12	16	4	12	16
Ag.Extension	Centrally and state sponsored schemes	Training on Centrally and state sponsored schemes	23.04.19	1	Nongkhroh	Farmers and farm women				3	36	36	3	36	36
Ag.Extension	Centrally and state sponsored schemes	Training on Centrally and state sponsored schemes	24.04.19	1	Namdong	Farmers and farm women				6	16	22	6	16	22
Ag.Extension	ICTs in Agriculture	Importance of ICTs in Agriculture	13.05.19	1	Rymbai	Farmers and farm women				17	11	28	17	11	28
Ag.Extension	ICTs in Agriculture	Importance of ICTs in Agriculture	27.08.19	1	Moodymmai	Farmers and farm women				24	16	30	24	16	30
Ag.Extension	Climate Change in Agriculture	Effects of Climate Change in Agriculture	28-29.08.19	2	Namdong	Farmers and farm women				18	9	27	18	9	27
Ag.Extension	ICTs in Agriculture	Training on ICTs in agriculture	15.11.19	1	Namdong	Farmers and farm women				10	20	30	10	20	30
Total				**148**						**1357**	**2061**	**3394**	**1357**	**2061**	**3394**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants							Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General	SC/ST			Total							
						M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Mushroom	16-21.1.19	5	Income generation	All year round Oyster Mushroom cultivation for enhancing farmers income		19	25	44	19	25	44					
Composting	11-15.2.19	5	Waste Management	Berkeley Compost		22	30	52	22	30	52					

Composting	18-22.2.19	5	Waste Management	Vermicomposting		15	30	45	15	30	45					
Organic farming	11-16.3.19	3	Organic farming	Introduction to Organic farming		7	21	28	7	21	28					
Piggery	11-16.3.19	3	Piggery	Piggery Rearing and Management		7	22	29	7	22	29					
Vegetables	7-14.09.2019	8	Nursery management	Nursery raising of vegetables and its management		15	17	32	15	17	32					
Composting	11-17.11.19	3	Waste Management	Vermicomposting		6	7	13	6	7	13					
Mushroom	15-21.11.19	3	Income generation	Oyster Mushroom production for doubling farmers income		19	20	39	19	20	39					
Scientific beekeeping	04.11.19 & 05.11.19	2	Income generation	Rural youth on Scientific beekeeping		30	35	65	30	35	65					
Scientific beekeeping	02-06.12.19	3	Income generation	Scientific beekeeping for enhancing farmers income		25	22	47	25	22	47					-
Total		**40**				**165**	**229**	**394**	**165**	**229**	**394**					

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants						Sponsoring Agency	Amount of fund received (Rs.)
							SC/ST			Total				
							M	F	T	M	F	T		

Off	RY	2-9.11.19	8	Agronomy	On and off farm waste management	Vermicomposting	7	8	15	7	8	15	Skill Training of Rural Youth (STRY) Under National Institute of Agriculture Extension Management (MANAGE)	42,000
On	RY	16-21.09.19	6	Plant Protection	Income generation	Mushroom Production Techniques	8	7	15	8	7	15	Skill Training of Rural Youth (STRY) Under National Institute of Agriculture Extension Management (MANAGE)	42,000

Off	RY	7-14.09.19	8	Horticulture	Nursery Management	Nursery Management	10	7	17	10	7	17	Skill Training of Rural Youth (STRY) Under National Institute of Agriculture Extension Management (MANAGE)	42,000
Total	**3**						**25**	**22**	**47**	**25**	**22**	**47**		**1,26,000**

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, KisanMela, Exhibition, Diagnostic Visit, etc) during January-December, 2019

Sl. No.	**Extension Activity**	**Topic**	**Date and duration**	**No. of activities**	**Participants**											
					General (1)			**SC/ST (2)**			**Extension Officials (3)**			**Grand Total (1+2)**		
					M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**

Agronomy																
1.	Advisory services	• Advised earthing up in potato and fertilization • Advised application of lime during field preparation • Advised application of mud slurry in maize stock at early stage of Army worm attack • Advised application of neem bio-pesticides • Advised application of bio-fertilizer on rice seedlings, • Advised the use of organic manure and liming, • Advised the use of organic manure and liming, • Advised seed treatment with bio fertilizer, • Advised weeding in groundnut, • Advised the use of organic manure and liming, • Advised seed treatment with bio-fertilizer • Advised the use of of organic manure and liming, seed treatment with bio-fertilizer, • Advised the use of ITK in aphid management, liming,	07.01.19 10.01.19 18.01.19 7.2.19 5.3.19 11.04.19 15.04.19 8.05.19 15.05.19 16.05.19 18.05.19 24.05.19 31.05.19 3.06.19 7.06.19 12.06.19 7.07.19 12.07.19 6.08.19 13.08.19 14.08.19 20.08.19 6.09.19 10.09.19 18.09.19 20.09.19 5.10.19 12.10.19 16.11.19 19.11.19 16.12.19 19.12.19	32				17	27	44				17	27	44

		• Advised vermi pit construction • Advised on liming and soil sampling														
2.	Diagnostic visit	• Diagnosed pod bore in pea • Diagnosed aphids in mustard • Diagnosed army worm attack in maize field • Diagnosed red ants and Blister beetle damages in potato, • Diagnosed army worm in maize • Diagnostic visit to jalkund site • Diagnostic visit Vermi-compost unit • Diagnose blister beetle attack on groundnut, • Diagnostic visit on paddy variety CAU R1 • Diagnosed blister beetle attack on groundnut • Diagnosed aphids attack on mustard • Diagnosed powdery mildew in pea • Diagnosed aphids in cabbage • Diagnosed rust in groundnut • Diagnosed soft rot in cabbage • Diagnostic visit to IFS unit	07.01.19 10.01.19 15.01.19 5.2.19 7.2.19 8.2.19 5.3.19 10.04.19 15.04.19 19.04.19 8.05.19 15.05.19 16.05.19 24.05.19 31.05.19 11.06.19 20.06.19 25.06.19 12.07.19 19.07.19 24.07.19 27.07.19 13.08.19 16.08.19 29.08.19 6.09.19 22.09.19 3.10.19 14.10.19 13.11.19 14.11.19	34				12	18	30				12	18	30

			21.11.19 19.12.19 20.12.19														
3.	Field Day	• Field day on OFT varietal performance of potato • Field day on groundnut, CAUR1 • FD on paddy cum fish • FD on groundnut	24.05.19 31.05.19 11.10.19 26.10.19 28.10.19 29.10.19 31.10.19 12.11.19 14.11.19	9				7	9	16				7	9	16
4.	Film Show	• PKVY • NADEP method of composting • Vermicomposting, installation of tetra vermibed • Soil and pulse symbiosis	13.3.19 22.10.19 30.10.19 11-17.11.19 5.12.19	11				96	155	251				96	155	251
5.	Group discussion	• Discussion on merits and demerits of vermi-composting • Discussion on climate resilient technologies • Discussion and visit to the site for demonstration	27.06.19 20.06.19 25.06.19 9.07.19	4				12	5	17				12	5	17
6.	Scientists' visit to farmers' field	• Diagnostic visit to pea field infested by pod bore • Diagnostic visit to mustard field infested by aphids • Diagnostic visit to cabbage field infested by soft rot • Visit to IFS	07.01.19 10.01.19 15.01.19 5.2.19 7.2.19 8.2.19 5.3.19 10.4.19 15.4.19 8.05.19	33				8	21	29				8	21	29

		• Diagnostic visit on paddy variety CAU R1 Diagnose blister beetle attack on groundnut, • Visit to Vermicompost unit	15.05.19 16.05.19 24.05.19 30.05.19 31.5.19 19.7.19 24.7.19 27.7.19 13.8.19 16.8.19 29.8.19 6.9.19 21.9.19 3.10.19 14.10.19 13.11.19 14.11.19 21.11.19 3.12.19 4.12.19 17.12.19 19.12.19 20.12.19														
7.	Method Demonstration	• Seed treatment with bio-fertilizer in legumes, • Seed treatment with bio-fertilizer, • Berkeley compost • Seedling treatment in paddy	25.2.19 8.05.19 18.05.19 23.06.19 13.08.19	5				17	47	64				17	47	64
8.	Lecture delivered as resource person	• Agriculture as a source of income generation • INM • Soil health management	16.01.19 6.2.19 12.05.19 5.12.19	4												
9.	Farmer-Scientist interaction	• Schemes of Central and State Government	10.01.16 27.08.19	2				33	43	76				33	43	76

10.	Leaflet/folder	• Soil testing • Soil Health card		2												
11.	NICRA (Training and Method Demonstration)	• Resource Conservation Technologies • Climate Resilient Technologies • Moisture Conservation Technologies	24.4.19 20.06.19 25.6.19	3				11	16	27				11	16	27
12.	NICRA (Group Meeting and Scientist visit)	• Visited Jalkunds demonstration at Mukhnang, Umjalasiaw • Visited IFS at Namdong • Releasing of fingerlings in IFS at Umjalasiaw	18.07.19 19.07.19 29.07.19 28.8.19	4				15	24	39				15	24	39
13.	Exposure visit	• Farmers Exposure visit to Dairy unit Animal & veterinary Dept, Upper Shillong • Visit to Egg laying cabin, Mawsiatkhnam • Visit to RRTC Umran • Visit to KVK Baramati , Pune under HRD Program	28.02.19 4.3.19 17.3.19 17-24.3.19	4				18	7	25				18	7	25
14.	Mera Gau Mera Gaurav(Training and Method Demonstration)	• Berkeley Composting	18.01.19 15.4.19 23.4.19 8.05.19 15.05.19	5				40	75	115				40	75	115
15.	Seeds and planting materials	• Distribution of watercans, maize seeds, frenchbeans, rhizobium, folders • Distribution of Arize 6444, CAUR1, rhizobium, Beans,	16.3.19 15.4.19 23.4.19 8.05.19 15.05.19 16.05.19 24.05.19	10				70	111	181				7	21	28

		carrot, Carrrot	30.05.19 31.5.19 27.8.19														
16.	TV programme	• Doordarshan Kisanvani Program on Popularization on Paddy cum fish • Doordarshan programme on paddy & paddy cum fish	21.8.19 12.11. 19	2				6	2	8				6	2	8
Total				**164**				**362**	**560**	**922**				**362**	**560**	**922**
SMS (Horticulture)																	
1.	Advisory services	• Advised ginger earthing up with nutrient application and mulching with green leaves • Advised line sowing in nursery raising of vegetables • Advised intercropping of cole crops with pea • Advised double row cropping of pineapple • Advised mulching of vegetables and fruit crops for moisture conservation • Advised nursery raising of cole crops prior to paddy harvesting for crop rotation in paddy fields • Advised farmers to do crop rotation after paddy with potato/vegetables in raised and sunken beds	10.06.19 14.06. 19 20.06. 19 05.07. 19 10.07.19 15.07.19 25.07.19 08.08.19 14.08.19 28.08.19 13.09.19 19.09.19 30.09.19 10.10.19 23.10.19 31.10.19 14.11.19 22.11.19 28.11.19 12.12.19 16.12.19	21	-	-	-	52	61	113				52	61	113

		• Advised farmers for growing of pea after ginger to replenish the soil with nutrients														
2.	Diagnostic visit	• Diagnosed bacterial wilt of tomato • Diagnosed aphids in French bean • Diagnosed cabbage butterfly in cabbage • Visited IFS demonstration unit at Namdong • Visited Jalkund demonstration unit at Umjalasiew • Visited tomato demonstration field at Tyrchang • Visited Drip irrigation demonstration at Mukhnang • Visited walk in tunnel demonstration at Namdong • Visited FLD on Vegetable based cropping system at Sohphoh and Wahiajer • Visited IFS demonstration unit at Wahiajer • Visited IFS demonstration unit at Mulum • Visited IFS	28.08.19 22.08.19 27.09.19 03.10.19 04.10.19 09.10.19 10.10.19 11.10.19 17.10.19 12.11.19 20.11.19 27.11.19 4.12.19	13				48	42	90				48	42	90

		demonstration unit at NICRA Village demonstration unit at Sohmynting														
3.	Field day	• Field day on cabbage • Field day on Broccoli • Field day on cauliflower • OFT of Canopy management of peach -	18.10.19 07.11.19 29.11.19 06.12.19	4				38	42	80				38	42	80
4.	Group Discussion	• Discussion with rural youth on establishment of plant nurseries • Discussion with rural youth on scope and marketing of vegetable seedlings, flowers and fruit trees seedlings • Group discussion with the farmers and VCRMC members of NICRA project • Group discussion with the ginger farmers of PKVY Scheme	13.09.19 14.09.19 14.10.19 21.11.19	4				142	118	260				142	118	260
5.	Film show	• Nursery management of vegetable crops • Propagation of ornamental crops • Airlayering of fruit crops • Grafting methods of fruit crops • T-Budding of fruit crops • Value addition of ginger	9.09.19 10.09.19 11.09.19 28.11.19	4				153	128	281				153	128	281

6.	Scientists visit to farmers fields	• Visited FLD on pineapple • Visited NICRA villages for demonstrations • Visited Jalkunds demonstration at Mukhnang, • Visited IFS • Releasing of fingerlings in IFS at Umjalasiaw • Drip irrigation installation in NICRA village • Videography of paddy cum fish • Installation of solar nano pump in NICRA village • Visited farmers field of FLD on pineapple • Visited jalkund demonstration units • Visited pineapple demonstration units • visited IFS demonstration unit at Namdong • visited Jalkund demonstration unit at Umjalasiew • visited tomato demonstration field at Tyrchang • visited Drip irrigation demonstration at Mukhnang • visited walk in tunnel demonstration at	05.06.19 20.06.19 8.08.19 21.08.19 26.08.19 28.08.19 27.09.19 30.09.19 03.10.19 04.10.19 09.10.19 10.10.19 11.10.19 17.10.19 20.11.19 4.12.19	24				47	54	101				47	54	101

		Namdong • visited FLD on Vegetable based cropping system at Sohphoh and Wahiajer • FLD on Organic nutrient management of ginger/ turmeric • Scientist visit from KVK East Khasi hills along with farmers to Custom Hiring centre of NICRA project														
7.	Method demonstration	• Liming of Fish pond at IFS unit • Berkeley compost preparation • Double row planting of pineapple • Nursery raising of vegetables and its management • Propagation of ornamental crops • Propagation of fruit crops	26.07.19 22.08.19 28.08.19 13.09.19	4				152	142	293				152	142	293
8.	Lecture delivered	• Citrus decline • Arecanut and betel nut leaf blight disease • Package of practices of ginger • Package of practices of turmeric • Package of practices of black pepper • Processing of turmeric Processing of ginger	17.09.19 5.11.19 28.11.19	3				38	90	128				38	90	128

		• Popularisation of cole crops • Nursery management of vegetables crops														
9.	Farmers scientist interaction	• Paramparagat Krishi Vikas Yojna • Interaction of the dignitaries with the NICRA farmers during ZMC visit to the NICRA villages • Interaction with the KVK East Khasi hills farmers on Importance of custom hiring centre of NICRA project	6.09.19 15.10.19 4.12.12	3				115	147	262				115	147	262
10.	Exposure visit	• Exposure visit of rural youth to vegetable nursery production unit and floriculture unit at Thadlaskein hub unit under STRY scheme • Exposure visit of rural youth to flower and vegetable nursery and production unit under STRY scheme	12.09.19 14.09.19	2				17	18	35				17	18	35
11.	Technical bulletin	• Poster on indigenous vegetables crops of Jaintia hills • Poster on tuber crops-importance and their uses	-	-												
12.	Workshop	• Participated in workshop on application of remote sensing/ GIS tools for planning and	28.10.19 29.11.19	2				-	-	-				-	-	-

		decision support organized by Department of Agriculture and NESAC • Participated in workshop of buyer sellers meet under meghalaya state medicinal plants board														
13.	Leaflet/folder	• Nursery raising of vegetables		1												
Total				**85**	**-**	**-**	**-**	**802**	**842**	**1643**	**-**	**-**	**-**	**802**	**842**	**1643**
SMS(Plant Protection)																
1.	Advisory services	• Advised use of botanicals and bio pesticides • Advised fruit fly traps and using biopesticides • Advised using of nets in cracks and crevices and Ginger rhizome treatment before sowing • Advised using IPM methods for managing Fall Army worm • Advised using IPM methods for managing Fall Army worm, using nylon nets for flies infestatio in mushroom, suggested re sowing of soyabean in July • Advised use of Tricho - cards and biopesticides • Advised to throw and burnt the diseased bag • Advised to uproot and	15.1.19 18.1.19 15.2.19 18.2.19 05.3.19 12.3.19 14.3.19 16.04.19 17.04.19 24.04.19 07.05.19 08.05.19 09.05.19 10.05.19 13.05.19 21.05.19 30.05.19 07.06.19 15.06.19 27.06.19 25.06.19 04.07.19 18.07.19 23.07.19 29.07.19	34				48	53	101				48	53	101

		burnt , seed treatment and to not harvest mother rhizomes • Advised installation of tricho cards • Advised on early sowing of Pea to avoid powdery mildew disease • Advised use of hermatic storage bags	01.08.19 05.08.19 06.08.19 19.08.19 20.08.19 29.08.19 18.09.19 25.11.19 29.11.19													
2.	Diagnostic visit	• Diagnosed cabbage butterfly • Diagnosed swarming in bees, diagnosed fruit flies in Peaches • Diagnosed pests in mushroom, soft rot in ginger • Diagnosed Fall army worm infestation • Diagnosed Fall army worm infestation, pests and diseases in Mushroom, soyabean very less germination if sownas an intercrop in April • Diagnosed Leaf folder infestation in Paddy • Diagnosed Trichoderma disease in Mushroom • Diagnosed soft rot disease in Ginger • Diagnosed Leaf folder in paddy • Diagnosed Trichoderma disease in Mushroom	15.1.19 18.1.19 15.2.19 18.2.19 05.3.19 12.3.19 14.3.19 16.04.19 17.04.19 24.04.19 07.05.19 08.05.19 09.05.19 10.05.19 13.05.19 21.05.19 30.05.19 07.06.19 15.06.19 27.06.19 25.06.19 04.07.19 18.07.19 23.07.19 29.07.19 01.08.19 05.08.19 06.08.19	39				16	48	64				16	48	64

		• Diagnosed soft rot disease in Ginger • Diagnosed Leaf folder in paddy • Diagnosed Storage pests in Paddy	19.08.19 20.08.19 29.08.19 01.09.19 05.09.19 06.09.19 19.09.19 20.09.19 29.09.19 25.11.19 29.11.19													
3.	Field day	• Eco friendly management of white grub in Potato • Eco friendly management of white grub in Potato	31.05.19 07.06.19 19.08.19 20.08.19	4				78	51	129				78	51	129
4.	Group Discussion	• DFI • Discussion on forming SHG • Discussion on formation of FPO	10.1.19 15.3.19 16.04.19 21.05.19 06.11.19 29.11.19	6				41	159	200				41	159	200
5.	Film show	• Oyster Mushroom cultivation and Scientific beekeeping • IPM in vegetables • Awareness on IPM approach to manage Fall Army Worm infestation on Maize crops • Seed treatment of Paddy • Video on IPM & IDM in Maize and Paddy • Mushroom production	29.1.19 30.1.19 31.1.19 11-16.3.19 22.05.19 04.07.19 01.08.19 05.08.19 06.08.19 29.8.19 16- 22.09.19 25.11.19 29.11.19	11				92	310	402				92	310	402

		techniques • Demonstration on Oyster Mushroom production for doubling farmers income														
6.	Scientists visit to farmers fields	• Visit OFT plot , field day and training	04.07.19 18.07.19 23.07.19 29.07.19 01.08.19 05.08.19 06.08.19 19.08.19 20.08.19 29.08.19 01.09.19 05.09.19 06.09.19 19.09.19 20.09.19 29.09.19 09.10.19 14.10.19 16.10.19 18.10.19 15.11.19 25.11.19 29.11.19 09.12.19 16.12.19 19.12.19	26				48	179	227				48	179	227
7.	Method demonstration	• Demonstration on using fruit fly traps and seed treatment with trichoderma • Demonstration on Oyster mushroom	12.03.19 14.03.19 16.04.19 17.04.19 22.05.19 31.05.19 15.06.19	15				132	353	485				132	353	485

		cultivation • Ginger rhizome seed treatment with *Trichoderma* • Demonstration on different IPM approach to manage Fall Army Worm infestation on Maize • Marks of identification of Fall Army worm • Demonstration on different IPM approach to manage Fall Army Worm infestation on Maize • Seedling root dip treatment with biopesticides • Demonstration on Oyster mushroom cultivation for ARYA youths • Demonstration on Oyster mushroom cultivation for NICRA • Demonstration on installation of Tricho cards • Demonstration on Mushroom production techniques • Demonstration on Scientific beekeeping • Demonstration on Oyster Mushroom production for doubling farmers income	04.07.19 29.07.19 08.08.19 08.09.19 14.10.19 15.11.19 25.11.19 29.11.19														

8.	Lecture delivered as resource person	• Lecture on IPM and IDM in Lakadong • Lectured delivered on - IPM & IDM in Maize and Paddy • Lectured delivered on - IPM & IDM in Maize and Paddy • For Dalmia Cement on Oyster Mushroom production for doubling farmers income	02.05.19 04.07.19 01.08.19 05.08.19 06.08.19 29.8.19 25.11.19 29.11.19	8				134	216	350				134	216	350
9.	Extension developed	• Folder released on White Grub during SAC meeting		1													
10.	NICRA (Training and Method Demonstration)	• Demonstration on Oyster mushroom cultivation • IPM & IDM in Paddy • Demonstration on Oyster mushroom cultivation for NICRADemonstration on installation of Tricho cardsTraining and demonstration on safe storage of ginger seeds • Training and demonstration on safe storage of paddy seeds	18.07.19 08.08.19 23.7.19 09.12.19 16.12.19	5				17	36	53				17	36	53
11.	Seeds and planting materials	• Distributed 400 kgs Kufri Jyoti seeds tubers	29-31.1.19					3	2	5				3	2	5
12.	Exposure visit	• Scientific Beekeeping • For ARYA youth to	07.3.19 15.11.19	2				15	10	25				15	10	25

		Mushroom shed of progressive farmer															
13.	TV programme	• Programme on storage pests in Paddy • Oyster Mushroom production for doubling farmers income	12.11.19 15.11.19	2													
14.	Doubling Farmers Income	• Demonstration on Oyster Mushroom production for doubling farmers income	1.11.19	1				0	20	20				0	20	20
	Total			**154**				**624**	**1437**	**2061**				**624**	**1437**	**2061**
SMS(Fisheries)																	
1.	Advisory services	• Advised farmers on benefits of adopting IFS • Advised farmers on importance of liming and manuring in fish pond. • Advised farmers on importance of liming and manuring in fish pond. • Advised farmers on benefits of adopting IFS • Advised farmers on benefits of adopting IFS • Advised farmers On importance of Pond Management in composite fish culture • Advised farmers On importance of adopting IFS	10.05.19 17.05.19 07.06.19 12.06.19 21.06.19 18.07.19 25.07.19 13.08.19 29.08.19 05.09.19 20.09.19 03.10.19 21.10.19 30.10.19 01.11.19 13.11.19 21.11.19 09.12.19 12.12.19	19				58	72	130				58	72	130
2.	Diagnostic visit	• Inspected site for conducting OFT and FLD	19.07.19 29.07.19 13.08.19 21.08.19	13				42	35	77				42	35	77

		• Inspected site for conducting IFS • Slow growth of fish because of lack of supplementary feeding and Overstocking • Occurrence of Epizootic ulcerative syndrome in culture pond	2.09.19 18.09.19 27.09.19 16.10.19 17.10.19 03.11.19 06.11.19 27.11.19 11.12.19													
3.	Field day	• Field day on Composite fish culture	14.10.19 20.11.19	2				25	31	56				25	31	56
4.	Group Discussion	• Discussed with farmers on importance of pond management for better production • Discussed with farmers on benefits of adopting IFS	21.05.2019 11.06.2019	2				119	128	247				119	128	247
5.	Scientists visit to farmers fields	• Inspection of site for OFT • Monitoring of OFT • Method demonstration • Monitoring of FLD Field • Data recording	13.05.19 07.06.19 21.06.19 02.07.19 15.07.19 23.07.19 05.08.19 14.08.19 27.08.19 06.09.19 16.09.19 30.09.19 04.10.19 14.11.19 25.11.19 09.12.19 13.12.19 17.12.19	18				52	43	95				52	43	95

6.	Method demonstration	• Method demonstration on prestocking management of pond • Method demonstration on monthly liming and manuring of pond • Method demonstration on broadcasting of feed • Method demonstration on preparation of value addition in fisheries	13.05.19 07.06.19 15.07.19 23.07.19 06.09.19 04.10.19 29.10.19 14.11.19 25.11.19	9				132	128	260				132	128	260
7.	Lecture delivered as resource person	• Delivered lecture on IFS	28.06.19 23.08.19	2				102	115	217				102	115	217
8.	Farmer-Scientist interaction	• Integrated Fish farming	02.07.19 23.07.19 20.11.19	3				148	162	310				148	162	310
9.	TV programme	• Doordarshan Kisanvani Program on Popularization on Paddy cum fish	21.08.19	1												
Total				**154**				**624**	**1437**	**2041**				**624**	**1437**	**2041**
SMS (AH& Vet.)																
1.	Advisory/helpline service	• Proper hygienic measurement of their sheds and timely deworming and vaccination • Visit to IFS unit • Advice regarding deworming and treatment of diarrhea of pigs • Vaccination schedule of poultry • Visit to IFS unit • Advice regarding	5.3.19 22.4.19 3.5.19 6.5.19 10.5.19 7.6.19 12. 6. 19 19.7.19 23.7.19 02.8.19 07.8.19 19.7.19 23.7.19 11.09.19	21				52	74	128				**52**	74	128

		deworming and treatment of diarrhea of pigs • Vaccination schedule of poultry • Scientific poultry farming practices • Visit to IFS unit • Advice regarding deworming and treatment of diarrhea of pigs • Vaccination schedule of poultry • Scientific poultry farming practices • Vaccination of poultry birds against ranikhet disease • Deworming of cattles should be done • Vaccination of pigs against swine fever • Deworming of cattles should be done • Vaccination of pigs against swine fever • Feeding practices in poutry • Treatment of pigs against mange • Maintenance of hygiene in poultry shed • Tips on scientific poultry production • To visit nearby veterinary dispensary in case of requirement of	22.09.19 28.09.19 16.10.19 21.10.19 13.11.19 15.11.19 20.12.19														

		medicines. • To vaccinate dogs at the age of 3 months and thereby yearly • Necessary steps to follow in case of dog bites and vaccination schedule in case of human being • To deworm pigs every 3 months • To vaccinate cattles against Foot and Mouth Disease • Tips on scientific poultry production • To visit nearby veterinary dispensary in case of requirement of medicines. • To deworm pigs every 3 months • To vaccinate cattles against Foot and Mouth Disease • Preparation of silage to reduce the feed cost • Tips on scientific poultry production • To construct deep litter pig shed to avoid winter stress • Importance of deworming in pigs • Doubling of income by taking up Integrated Farming System • Tips on scientific														

		poultry production • To construct deep litter pig shed to avoid winter stress • Importance of deworming in pigs • Doubling of income by taking up Integrated Farming System • Reduce feed cost through preparation of silage														
2.	Diagnostic visit	• Visit to IFS unit • Construction of deep litter pig sty • Treatment of diarrhea and mange in pigs • Vaccination of poultry birds • Deworming of pigs • Treatment of diarrhea and mange in pigs • Visit to IFS unit • Vaccination of poultry birds • Deworming of pigs • Treatment of diarrhea and mange in pigs • Visit to IFS unit • FLD visit for body weight measurement • Deworming of pigs, treatment of diarrhoea in poultry, visit to IFS sites • Visit to IFS unit • Visit to Pig farmunit, Deworming of cattles	5.3.19 5.4.19 7.4.19 13.4.19 15.4.19 21.4.19 8.5.19 15.5.19 16.5.19 24.5.19 30.5.19 31.5.19 20.6.19 25.6.19 25.6.19 10.7.19 12.7.19 19.7.19 24.7.19 27.7.19 30.7.19 05.8.19 09.8.19 13.8.19 20.8.19 21.8.19	48				72	63	135				72	63	135

		• Visit to poultry farm and inspection of FLD units • Construction of Poultry shed under ARYA Project • Construction of deep litter pig shed at NICRA village • Backyard Poultry rearing • Distribution of piglets under NICRA Project • Treatment of pig suffering from severe diarrhea • Visit to backyard poultry unit • Visit to Deep litter pig shed • Visit to ARYA poultry farming unit • Construction of deep litter pig shed and distribution of piglets • Visit to poultry unit under FLD • Treatment of pigs against diarhhoea • Visit to IFS unit • Visit to deep litter pig shed • Feeding management of pigs • Backyard poultry farming • Treatment of pigs against diarhhoea	23.8.19 22.8.19 06.09.19 10.09.19 12.09.19 13.09.19 23.09.19 27.09.19 03.10.19 04.10.19 09.10.19 10.10.19 11.10.19 04.11.19 13.11.19 14.11.19 21.11.19 22.11.19 6.12.19 9.12.19 16.12.19													

		• Visit to deep litter pig shed • Feeding management of pigs • Distribution of piglets to NICRA village • Visit to IFS unit • Visit to OFT "Innovative Egg Laying Cabin" • Visit to FLD "Rural poultry production with improved chicken variety (Vanaraja) • Visit to OFT field on IFS • Pig shed and advised for deworming • Visit to poultry shed and advised on proper sanitation of poultry shed • Visit to poultry shed under ARYA Project • Site selection for construction of deep litter pig shed • Rural poultry production with improved chicken variety (Vanaraja)														
3.	Film Show	• Clipping of needle teeth in piglets	12.3.19	1				7	21	28				7	21	28

4.	Exposure visit	• Visited NOFRI, Tadong, College of Agriculture Engineering and post-harvest technology, Ranipool and NRC on Orchid,Pakyong, Sikkim under CAT Programme sponsored by NABARD • Exposure visit to NICRA village to get firsthand knowledge on various climate resilient technologies • Exposure visit of officials and farmers from East Khasi Hills on Establishment of Custom Hiring Centre and firsthand knowledge on climate resilient technologies	24-27.10.19 04.12.19	3				20	17	37				20	17	37
5.	Method Demonstration	• Poultry production with improved chicken variety (Vanaraja) • Method of breed selection for successful pig rearing • Deworming of pigs • Deworming of cattles and feeding of mineral mixtures • Poultry Rearing with	8.4.19 10.4.19 18.6.19 27.6.19 05.07.19 09.07.19 26.07.19 08.08.19 05.09.19 03.10.19 08.11.19	12				125	152	277				125	152	277

		improved variety (Vanaraja) • Silage making for feeding of pigs • Silage preparation using sweet potato vines • Rural poultry production with improved chicken variety (Vanaraja)	03.12.19													
6.	Lecture delivered	• Piggery farming • Poultry farming • Dairy farming • Key notes on the launching of National Animal Disease Control Programme • Social Enterprise: With special reference to animal husbandry sector • Cattle farming • Poultry cum fish farming • Silage preparation using sweet potatao vines • Feeding management • Climate resilient technologies in Animal Husbandry sector	9.4.2019 11.09.19 02.10.19 03.10.19 05.10.19 08.10.19 04.12.19	7				231	172	403				231	172	403
7.	Group discussion	• Advantage of rearing improved chicken varieties • Silage preparation using sweet potatao vines • Rural poultry production with	27.6.19 02.10.19 04.12.19	3				131	128	259				131	128	259

		improved chicken variety (Vanaraja)														
8.	Technical bulletin	• Poster on Deep litter pig housing model • Poster on Vaccination schedule of layer		2												
9.	Leaflet/Folder	• Silage preparation for pigs • Leaflet on ka rukom ri sniang		2												
10.	Scientists' visit to farmers' field	• Visit to IFS unit • Construction of deep litter pig sty • Treatment of diarrhea and mange in pigs • Vaccination of poultry birds • Deworming of pigs • Treatment of diarrhea and mange in pigs • Visit to IFS unit • Vaccination of poultry birds • Deworming of pigs • Treatment of diarrhea and mange in pigs	5.3.19 5.4.19 7.4.19 13.4.19 15.4.19 21.4.19 8.5.19 15.5.19 16.5.19 24.5.19 30.5.19 31.5.19	12				65	72	137				65	72	137
11.	Farmers Scientist Interaction	• Awareness on latest technologies under animal science • Latest technologies in animal science sector	27.8.19	2				24	16	40				24	16	40

12.	Seeds and planting materials		• Distribution of watercans, maize seeds, frenchbeans, rhizobium, folders,mineral mixture+vitamin,deworming tablets • Distribution of beans,coriander seeds, folders,mineral mixture+vitamin,deworming tablets • Distribution of Arize 6444, CAUR1, rhizobium ,mineral mixture+vitamin,deworming tablets • Distribution of Vanaraja chicks for FLD and NICRA beneficiary • Distribution of piglets under NICRA Project	16.3.19 23.4.19 24.4.19 08.07.19 08.07.19 11.10.19	5				53	54	107				53	54	107
13.	NICRA	Group Meeting and Scientist visit	• Climate Resilient Technologies • Awareness on latest technologies under animal science • Visit to deep litter pig shed • Backyard poultry farming • Visit to IFS unit • Group discussion with the farmers based on the Animal husbandry technology adopted and the VCRMC team • Exposure visit of	20.6.19 25.6.19 19.07.19 23.07.19 26.07.19 27.07.19 06.09.19 27.09.19 29.09.19 15.10.19 04.1219	11				55	73	128				55	73	128

			officials and farmers from East Khasi Hills														
		Method Demonstration	• Silage preparation using sweet potato vines • Intra muscular injection of pigs • Silage preparation using sweet potato vines	08.8.19 27.09.19 03.10.19	3				25	42	67				25	42	67
		Training	• Goatery farming	28.8.19					9	18	27				9	18	27
14.	ARYA	Group Meeting and Scientist visit	• Brief about ARYA Project to the rural youths • Inspection of construction of first unit of Poultry shed • Inspection of poultry shed under ARYA project	28.6.19 30.7.19 21.8.19	3				9	12	21				9	12	21
		Method demonstration	• Diagnostic visit for treatment of infectious coryza in birds	22.10.19	1				5	4	9				5	4	9
		Input distribution	• 100 nos. of Vanaraja chicks	03.09.19	1				3	2	5				3	2	5
Total					**137**				**886**	**920**	**1808**				**886**	**920**	**1808**
SMS (Agril.Extension)																	
1.	Diagnostic visit		• Visit to IFS field, management of self help group, farmer's loan	09.01.19 14.6.19	2	-	-	-	6	6	12	-	-	-	6	6	12

		• Visit of fields infested by fall army worm														
2.	Scientist visit to farmers field	• Follow up of activities under NICRA project • Visit to Shnongrim (Latyrke) for assessment of training • Conducted survey for Doubling Farmer's Income village at Lumkudung • Conducting Examination of farmers • Visit to Sahsniang for assessment of training • PKVY Survey at Ialong village	24.2.19 5.03.19 12.03.19 8.03.19 18.7.19 29.08.19 21.11.19	7				20	22	42	-	-	-	20	22	42
3.	Lecture delivered as resource person	• Telecast/Webcast of inauguration of PM Kisan Samman Nidhi • Mini Reagan Krishi Mela at Sericulture Training Institute Ummulong • Training on "Public Private Partnership in Agricultural Extension Reforms" organized by MAMETI for ATMA personnel. • Conceptual introduction to NICRA & NICRA projects in Meghalaya"	30.01.19 31.01.19 24.2.19 8.03.19 23.08.19	5	-	-	-	132	163	295				132	163	295

		at Soil &Water Conservation,														
4.	Farmer Scientist Interaction	• KCC	06.05.19	1				15	38	53				15	38	53
5.	Data collection	• Data collection at Namdong village	15.11.19	1				20	40	60				20	40	60
	Total			**16**				**193**	**269**	**462**				**193**	**269**	**462**
1.	Celebration of important days	• World Environment day • World Soil day cum Rabi Campaign 2019	5.6.19 5.12.19	2				70	82	152				70	82	152
2.	Newspaper coverage			5				-	-	-				-	-	-
3.	Radio talk	• Discussion on Scientific Pig farming • Talk on Soil Health card • Dialogue on KCC • Talk on Fall Army Worm mode of infestation, identification and management practices • Discussion on Scientific Pig farming • Talk on hygienic measures in pig farming		5				-	-	-				-	-	-
4.	Awareness Programme	• Awareness Programme on Scientific Management of Fall armyworm in maize production organized by DAD, ATMA and KVK • Jal Shakti Abhiyan Scheme • Awareness programme on 22.05.19 on IPM approach to manage Fall Army Worm infestation	08.4.19 23.05.19 22.05.19 23.05.19 23.07.19 27.08.19 17.09.19 30.10.19 12.11.19	7				125	387	512				125	387	512

		on Maize crops • Conservation Agriculture • Awareness Programme on Scientific Management of Fall armyworm in maize production organized by DAD. ATMA and KVK • Vaccination camp for cattle against Foot & Mouth Disease under NICRA Project • IFS															
5.	Exhibition	• Participated in exhibition organised by DHO Khliehriat organised Horticulture Exhibition during Rabi campaign • World Soil day cum Rabi Campaign	05.12.19 11.12.19	2				50	44	94				50	44	94
6.	Kisan Mela	• Jal Shakti Abhiyan and Kisan Mela on Indigenous fruits, Vegetables & Handicrafts	30.10.19	1				47	63	110				47	63	110
7.	Group Meeting			30				115	135	250				115	135	250
8.	Soil & Plant Analysis	• Analyzed plant sample containing leaf folder • Analyzed plant sample containing soft rot disease • Analyzed plant sample containing soft rot disease	04.07.19 18.07.19 23.07.19 29.07.19 01.08.19 05.08.19 06.08.19 19.08.19 20.08.19	16				14	14	28				14	14	28

			29.08.19 01.09.19 05.09.19 06.09.19 19.09.19 20.09.19 29.09.19														
9.	Farmer's visit to KVK							83	75	158				83	75	158
10.	Farmers's seminar	• Tree Plantation Program Cum Farmers Seminar		1				46	22	68				46	22	68
	Total			**69**				**550**	**822**	**1372**				**550**	**822**	**1372**
	GrandTotal			**779**				**4041**	**6287**	**10309**				**4041**	**6287**	**10309**
	Any other (Please specify)	➢ All SMS conducted SAC meeting on 25.1.19 ➢ SMS (Agronomy) visited CPRS Upper Shillong for planting material on the 4th Feb ➢ SMS (Agronomy) participated in Horticulture Exhibition cum honey bee festival organized by the District Horticulture Office WJHD on the 29.5.19 ➢ SMS (Agronomy) conducted Survey at Niawkmai for DFI on the 21st .5.2019 ➢ SMS (Agronomy) attended Training on Improved Production Technologies for Doubling Framers Income from 4-7 , Nov 2019 at VPKAS Almora ➢ SMS (Agronomy) attended training of trainers programme organized by ASCI in collaboration with ICAR-ATARI, Zone-VII, Umiam(11-13. Dec. 2019) ➢ SMS (Horticulture) attended interface meet on implementation of Pramparagat Krishi Vikas Yojana at ATARI, Umiam ➢ SMS (Horticulture) participated in training on organic farming for extension staff 104rganized by Regional centre of organic farming,Imphal at IATC Upper Shillong from 13th to 14th November ➢ SMS (Horticulture) attended interaction with Minister of state for agriculture and farmers welfare ATARI,Umiam 24.11.19 ➢ SMS (Horticulture) participated in one day Exhibition cum Training organized by DHO Khliehriat on 11.12.2019 ➢ SMS (Plant Protection) visited to Mushroom Development Centre on 03 and 28.1.18 for spawn collection ➢ SMS (Plant Protection) meeting with Director Agriculture on 14.1.18 ➢ SMS (Plant Protection) presented the Action Plan at ATARI office on 01-02.3.19 ➢ SMS (Plant Protection) visited KVK Ri Bhoi- 04.3.19 ➢ SMS (Plant Protection) visited RRTC-05.3.19 ➢ SMS (Plant Protection) visited East Khasi Hills on 25-27.3.19 ➢ SMS (Plant Protection) went for Soil collection on the 04/04/19 at Mukhnang ➢ SMS (Plant Protection) visited to Bio lab and Mushroom development centre for making project proposal -03.05.19 ➢ SMS (Plant Protection) attended ICAR workshop on Maize Fall Army worm on 28.05.19 ➢ SMS (AH&Vety) attended the Zonal Committee Meeting of ARYA Project at AAU,Jorhat during 29th to 30th April 2019. ➢ SMS (AH&Vety) attended the Orientation Programme for the newly joined SMS ataATARiI Umiam during 8th to 10th															

		May 2019 ➢ SMS (AH&Vety) attended ATMA Block Meeting at Latyrke on the 29. 5.2019 ➢ SMS (AH&Vety)attended the Annual Review Workshop of NICRA KVKs at CRIDA,Hyderabad during June 4th to 6th, 2019 ➢ SMS (AH&Vety) visited ICAR Research Complex for NEHR for collection of fingerlings for IFS unit ➢ SMS (AH&Vety) attended the 91st ICAR Foundation Day,Award Ceremony and Innovative Farmer's Conclave at NASC Complex, New Delhi during July 16-17, 2019 ➢ SMS (AH&Vety) attended 5 days Training of Training Programme on Social Enterprise: Development and Management during September 16th to 20th, 2019 at NIRDPR-NERC, Guwahati ➢ SMS (AH&Vety) attended Poultry Expo at Khanapara along with 2 progressive livestock farmers from Jaintia Hills and West Khasi Hills district of Meghalaya at College of veterinary science, AAU, Khanapara, Guwahati ➢ SMS (AH&Vety) attended training of trainers programme organized by ASCI in collaboration with ICAR-ATARI, Zone-VII, Umiam ➢ SMS (Fisheries) attended BTT meeting on the 29th may in the Office of the Project Director, ATMA Khliehriat,East Jaintia Hills ➢ SMS (Fisheries) participated in one day Exhibition cum Training organized by DHO Khliehriat on 11.12.2019 ➢ SMS (Agril Extension) attended Mini Reagan Krishi Mela at Sericulture Training Institute Ummulong on the 8th March 2019. ➢ SMS (Agril Extension) attended the Orientation Training Programme for New SMSs of KVKs under Zone VII at ICAR ATARI Zone VII & CAU Imphal at ICAR ATARI, Umiam on the 8th May to 10th May 2019 ➢ SMS (Agril Extension) conducted survey at Niawkmai village for Doubling Farmers Income ➢ SMS (Agril Extension) visited the Range Forest Office, Shangpung for procurement of trees for World Environment day on the 4.06.19

3.5 Production and supply of Technological products during January-December, 2019

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Paddy	CAU R1	5	17500		40	**40**
OILSEEDS	Groundnut	ICGS-76	4.5	11250		40	**40**

SPICES	Ginger	Nadia	3	12000		5	**5**
	Turmeric	Lakadong	2	12000		7	**7**

A1. SUMMARY of Production and supply of Seed Materials during January-December, 2019

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
					General	SC/ST	Total
1	CEREALS	5		17500		40	40
2	OILSEEDS	4.5		11250		40	40
3	SPICES						
	Ginger	3	3	12000		5	5
	Turmeric	2	2	12000		7	7
TOTAL		**14.5**	**5**	**52750**		**92**	**92**

B. Production and supply of Planting Materials (Nos. in No.) during January-December, 2019

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
						General	SC/ST	Total
Fruits								
Spices								
Tuber crop								
Ornamental Plants								
Vegetables								
Forest Spp.								
Plantation crops								
Medicinal plants								
OTHERS (Pl. Specify)								

C. Production of Bio-Products during January-December, 2019

Major group/class	Product Name	Species	Target	Produced Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
				No	(kg)		General	SC/ST	Total
BIOAGENTS	-	-		-	-	-	-	-	-
BIOFERTILIZERS	Vermicompost	Eisenia foetida		-	1150 kg	17250	-	2	2
BIO PESTICIDES									

D. Production of livestock during January-December, 2019

Sl. No.	Type/ category of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
1.	**Piggery**	Hampshire,Large Black	21	1470	367500	-	6	6
2.	**Poultry**	Vanaraja	1345	4035	871500	-	35	35
3.	**Fisheries**	Common carp seeds	10,000	-	20000	-	20	20
	Total		**11366**	**5505**	**1259000**	**-**	**20**	**41**

3.6. Literature Developed/Published (with full title, author & reference) during January-December, 2019

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):_____

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
Newsletter	January –December, 2019	Senior Scientist & Head	500 copies	500 copies
Leaflets/folders	i. Soil testing ii. Soil Health card	Smt. R.Lyngdoh (SMS,Agronomy)	1000 copies	1000 copies
	i. Ka rukom ri sniang ii. Silage preparation for pigs	Dr. R.Suchiang (SMS,AH&Vety.)	1000 copies	1000 copies
	i. Nursery raising of vegetables	Smt. B.Kharbamon (SMS,Horticulture)	1000 copies	1000 copies
	i. White grub	Smt.R.W.Rangad (SMS, Plant Protection)	1000 copies	1000copies
Technical Bulletin	i. Poster on indigenous vegetables crops of Jaintia hills ii. Poster on tuber crops-importance and their uses	Smt. B.Kharbamon (SMS,Horticulture)	2 nos.	-
	i. Poster on Deep litter pig housing model ii. Poster on Vaccination schedule of layer	Dr. R.Suchiang (SMS,AH&Vety.)	2 nos.	-
Newspaper clipping	i. Awareness programme on IPM approach to manage Fall Army Worm infestation on Maize crops published on 22.05.19 ii. Awareness on Fertilizer application programme published on 26.05.19 iii. Skill Training of Rural Youth	-	Published in 4 local newspapers 1. Mawphor 2. Nongsain Hima 3. Peitngor 4. Meghalaya Guardian	

	(STRY) on Nursery management under National Institute of Agriculture Extension Management (MANAGE) published on 17.09.19 iv. Swachhata Hi Sewa programme published on 19.09.19 v. World Soil Day programme on published 06.12.19			
TOTAL	**4**		500 copies (newsletter) 4000 copies (leaflets) 4 posters	500 copies (newsletter) 4000 copies (leaflets) 4 posters

N.B. Please enclose a copy of each. In case of literature prepared in local language, please indicate the title in English

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1.	CD	Video on beekeeper	20

1.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

"Vanaraja": *A successful intervention for income generation and self-employment in Jaintia Hills district of Meghalaya*

Background:

Poultry farming is slowly but steadily emerging as a great source of livelihood for the younger generation and women farmers in Jaintia Hills district of Meghalaya with many taking the occupation because of the handsome return which comes from its practice. This provides subsidiary source of livelihood to the people living below poverty line due to the lack of sufficient agricultural land to sustain, particularly in the draught prone,hilly,tribal and other remote areas where crop production on its own may not be capable of engaging them fully**.** Backyard farming is usually practised which usually comprises of rearing indigenous birds with low production performances. Usually the potentiality of indigenous bird in terms of egg production is only 70-80 per year and body weight of 1.5 kg. Therefore, based on the need of the region and at the right time,

"Vanaraja" an improved chicken variety having a superior egg laying capacity and body weight gain, developed by Project Directorate on Poultry Hyderabad was introduced in Jaintia Hills district.

Methodology:

A total number of 15 beneficiaries were selected from 15 different villages of West Jaintia and East Jaintia Hills district. Each beneficiary was given 20 numbers of Vanaraja birds and reared under backyard system under strict supervision by the Subject Matter Specialist (Animal Husbandry & Veterinary) KVK Jaintia Hills. Monthly record of body weight, health and biosecurity measures were done accordingly. Feeding was done completely under zero input system and low cost housing system.

Results:

The result was a satisfactory one as there was a double increase in both the body weight gained and egg production as depicted in the table below:

Technology demonstrated	**No. of farmers benefitted**	**Age at 1st egg laying**	**Body weight gain/Egg production**	**Gross cost(in rupees)**	**Gross return(in rupees)**	**Net return(in rupees)**	**BCR**
Rural poultry production with Vanaraja	20	165	2.5-4.5 kg body weight/150-170 eggs	4800	12100	7300	2.52:1
Farmer's practice	20	184	1.0-1.5 kg body weight/60-80 eggs	3460	5460	2000	1.6:1

Impact:

This technology was the biggest achievement of KVK Jaintia Hills during the year 2019-20 with a total of 30 farmers getting attracted towards this technology and more expected in the coming years. The spread of technology is depicted in a tabular form below:

Sl. No.	**Category**	**No.of Vanaraja birds**
1	Vanaraja birds distributed by KVK Jaintia Hills during its first introduction in the district	300
2	Demonstration along with ATMA from various blocks of West Jaintia Hills district	170
3	Demonstration along with ATMA from various blocks of	65

	East Jaintia Hills district	
4	Purchased by farmers of West Jaintia Hills district	1060
5	Purchased by farmers of East Jaintia Hills district	753
	GRAND TOTAL	**2048**

***Total number of birds distributed by KVK Jaintia Hills:** 300 numbers
****Spread of Technology:** 2048 birds

Another great achievement is that in the recently concluded Scientific Advisory Committee held during 14th February 2020, the office of the District Veterinary Officer, West Jaintia Hills district has decided to take up this technology in a large scale after its two years of demonstration by KVK Jaintia Hills.

Organic Nutrient Management of Ginger and Turmeric

Introduction:

Ginger is one of the major crops in Jaintia hills, accounting for an area of 340 hectares with a production of 3561 tonnes and productivity of 10.47 t/ha (Directorate of Horticulture, Meghalaya, 2012-13). Turmeric is synonymous with Jaintia Hills and the Jaintia Hills Districts of

Meghalaya is home to one of the finest turmeric varieties in the world – the famous "Lakadong" variety. The Lakadong variety has curcumin content > 7.4% and has very good commercial value in the market. The volatile oil content in dry turmeric varies between 3.6% to 4.8%.Most of the farmers are practicing traditional methods of cultivation in slash and burn methods and buns cultivation. Most of the farmers did not follow any seed treatment before sowing, some farmers use chemical fertilizers like DAP, urea at time of planting while some farmers cultivate in virgin forest soils after clearing a patch of land and slash burning without application of any fertilizer. The farmers' production before intervention of technology was low, with very less profit due to lack of nutrient management, loss due to soft rot disease, and loss of seed rhizome during storage. The yield of ginger is low mainly due to lack of nutrient management; therefore the technology of organic growing of ginger was introduced in farmers' field. As the State Government is heading for organic mission, the technology was more appropriate fulfilling the needs of the farmers. First the technology "Organic growing of ginger" was taken as On farm trial from 2013- 2014, then it was refined on 2015-16 by adding more treatments and then further spread as Front line demonstration in farmers field from 2016-2019.

KVK Intervention:

The technology "Organic Nutrient Management of ginger and turmeric" was demonstrated in the year 2019-2020 in the farmers field at Nongkynrih, Mukhnang, Namdong, Mootyrchiah. The technology includes application of vermicompost @ 2.5t/ha with cow dung manure @ 2.5t/ha and bio-inoculation with 9.6kg Azotobacter and 9.6kg PSB per hectare.

Before sowing, the seeds are treated with *Trichoderma viridae* @ 5ml/litre to control soft rot disease for 30mins. After drying in the shade, the rhizomes are planted.

For one acre of land, two heaps of cow dung manure of 50kg each is kept on a shady place preferably a hut to avoid direct sunlight. Then mix 2-4kg azotobacter in 2-4 lts of water and pour this on the heap of manure. In another bucket mix 2-4 kg of PSB in 2-4 litres of water and mix in the other heap of manure. The heap of compost is also treated with *Trichoderma viride* @2.5kg/50kg cowdung manure. Keep these manure overnight and in the following day, mix both the heaps properly. This manure is used immediately for planting of ginger. In highly acidic soils, 25kg of lime can also be applied.

The rhizomes are placed in pits filled with manure and vermicompost well mixed with soil at a depth of 4-5cm and covered with soil. The spacing maintained is 30cm x 30 cm. Need based soil drenching of *Trichoderma viride* @10gms/lt water at 15 days interval during rainy season was also recommended

For seed purpose, healthy plants, free from disease and pest are selected while still in the field. Rhizomes for seed purpose are kept separate from the rhizomes for sale, they are not mixed. Before storage the seed rhizomes are treated with *Trichoderma viridae* @ 5ml/litre. The seed rhizomes are then dried under the shade for 1-2 days. Pits of 1m depth are dug and a layer of dry sand is placed on the bottom. Then the seed rhizome are placed in layers alternating with paddy straw and over it wooden planks on the top or soil a little over the ground level to form a roof. Then, the pit is sealed with clay. There is provision for aeration with bamboo pole and covered on the top to protect from rain water entering into the pit.

Output and Outcome

Ginger: The cost of cultivation is high mainly because of the high seed rate. In farmers practice the cost of cultivation is Rs.155000 whereas after intervention cost of cultivation is Rs.175000 with the application of organic manures. The yield before intervention was 11.52t/ha compared to 16.1t/ha after intervention. The percentage increase in yield is 28.4%. There was an increase in the net profit from Rs. 305800 to Rs. 469000 after intervention. The B:C ratio was 3.68:1 after intervention compared to 2.97:1 during farmers practice.

Turmeric: There was an increase in yield from 7.8t in farmers practice to 12.1t after intervention. It was evident from 35.2 percentage increase in yield. The gross cost was higher in intervention (Rs.125500) as compared to farmers practice (Rs.105000). The net income has increased from Rs.169400 to Rs.298000 after intervention. The B:C ratio of farmers practice was 2.61:1 as compared to 3.37:1 after intervention.

Impact:

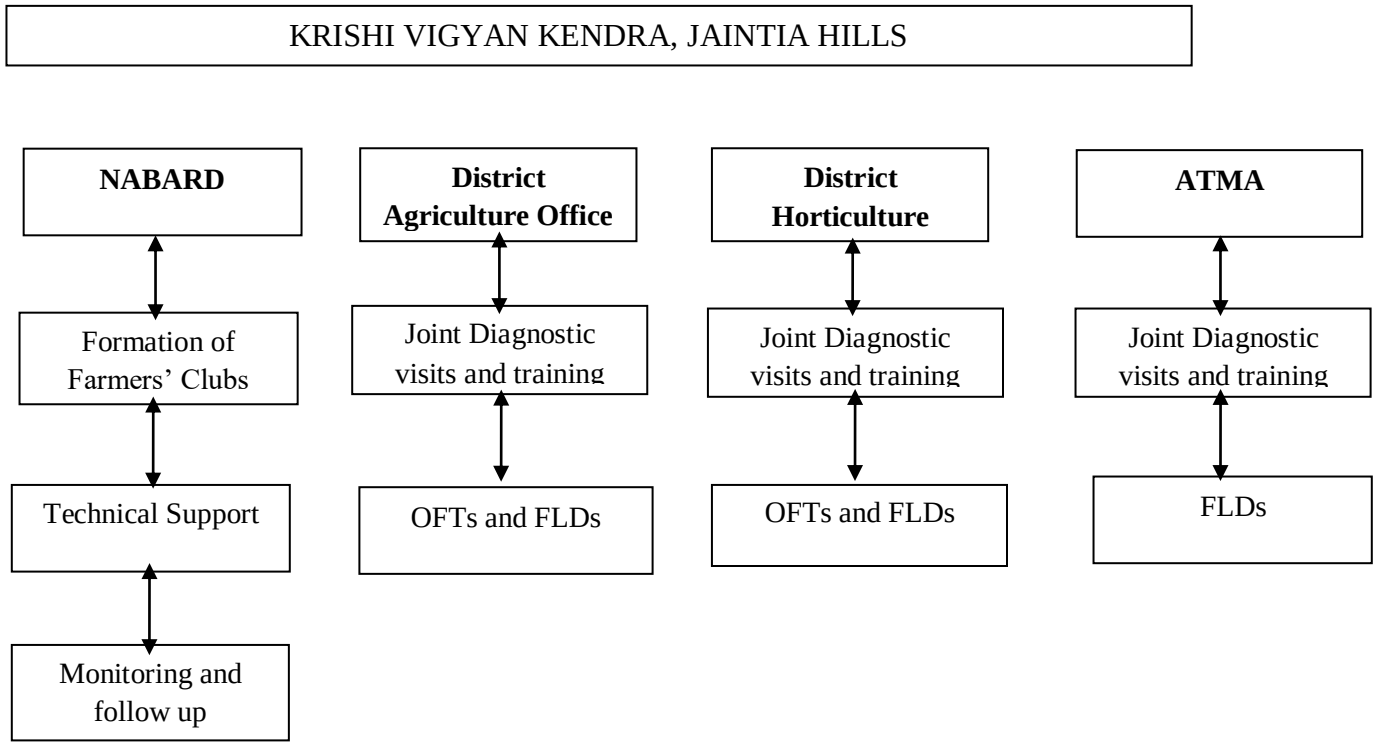
KVK team has noticed that there is growing interest of farmers for cultivation of organic ginger due to its higher productivity, reduced loss due to soft rot disease and reduced loss in storage. Farmers have realized the detrimental effects of chemical fertilizers on their soils, importance of soil manuring, soil conservation and organic farming. Farmers are now rotating the same land with other vegetable crops since the soil is good and fertile with application of organic manures. Farmers noticed that their soil health has improved and less disease in the field and storage. The concerned farmer gave the feedback that vermicompost is a very good manure for their crop especially when incorporated with biofertilizers. Farmers are now motivated to start their own vermicompost unit and use vermicompost for other crops as well. The technology is having a good impact on the farming community and environment as well.

ving at

Seed treatment of ginger before storage at Mukhnang

Ginger demonstration at Mukhnang

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year



3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
-	-	-	-

1.10 Indicate the specific training need analysis tools/methodology followed for

A. Identification of courses for farmers/farm women
   i. PRA
   ii. Field visit/ Diagnostic visit
   iii. Focus group discussion
   iv. Farmers Visit to KVK
   v. Discussion with Department Officials

B. Rural Youth
   i. PRA
   ii. Focus group discussion
   iii. Youth Visit to KVK
   iv. Discussion with NYKS Officials

C. Extension personnel
   i. Focus group discussion
   ii. Meetings
   iii. Discussion with Department Officials

3.11 Field activities

i. Number of villages adopted: 35
ii. No. of farm families selected: 70

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Nil

1. Year of establishment : Nil
2. List of equipments purchased with amount : Nil

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	Nil	Soil Testing Kit	Nagarjuna Agro Chemicals Pvt. Ltd.	2	86000(Exclusive Tax) each

3. Details of samples analyzed

Details	No. of Samples analysed	No. of Farmers	No. of Villages
Soil Samples	320	500	8
Total	**320**	**500**	**8**

4. Details of Soil Health Cards (SHCs) during January-December, 2019

a. No. of SHCs prepared: 500
b. No. of farmers to whom SHCs were distributed: 500
c. Name of the Major and Minor nutrients analyzed: NPK (kg/ha)
d. No. of villages covered: 8 nos.

3.13. Details of SMS/ Voice Calls sent on various priority areas

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary

Text only	16	2000	12	1500	-	-	-	-	10	1000	12	700	50	5200
Total	**16**	**2000**	**12**	**1500**					**10**	**1000**	**12**	**700**	**50**	**5200**

3.14 Contingency planning for January-December, 2019

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	**Proposed Measure**	**Proposed Area (In ha.) to be covered**	**Number of beneficiaries proposed to be covered**		
			General	**SC/ST**	**Total**
Drought	Water harvesting structure (*Jalkund*)	2	-	10	10
	Training and demonstration	7	-	150	150
	Distribution of seeds and planting materials	-	-	-	-
	Introduction of new variety or crop i. Peach (var.*Pratap, Flordasun*) ii. Guava (var. *Megha Supreme, Megha Magenta & Megha Wonder)* iii. Groundnut (*ICGS-76*) iv. Ginger(var.*Nadia*)	9.55	-	23	23

	v. Turmeric(var.*Lakadong*)				
	Introduction of Resource Conservation Technologies	2	-	10	10

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
						General	SC/ST	Total
Flood	Deworming of cattle & pigs Vaccination of animals	300	3	**3** 1. Vaccination camp for poultry against Ranikhet disease 2. Vaccination camp for cattle against Foot and Mouth disease 3. Vaccination camp for pigs against Swine fever	Birds-600 Cattle-200 Pig-300		100	100
Drought	Distribution	300	3	2	300		10	10

	of poultry							

4.0. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period only)

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

4.3 Details of impact analysis of KVK activities carried out during the reporting period: Nil

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during January-December, 2019

Sl.No.	Name of organization	Nature of linkage	Outcomes
1	District Agricultural Office (West Jaintia Hills District)	Convergence of programmes, Diagnostic visit	• Awareness Programme on Fall Army Worm at Khanduli village on 22nd May, 2019. Total no. of farmers: 151 • Awareness programme on Fertilizer Application at Lumbihsyntu on 22.10.2019

			Total no.of farmers: 108
2	District Agricultural Office (East Jaintia Hills District)	Resource person in training programmes, Participation in programmes	• Training on Cropping system of vegetables at Jalaphet village • Participated in the exhibition organised by the District Agricultural Office (East Jaintia Hills District)
3	District Horticulture Office (West Jaintia Hills)	Convergence of programmes, Resource person in training programmes	• Training on Management of disease in citrus and production technology of banana • Participated in the Horticulture Exhibition cum honey bee festival organized by the District Horticulture Office WJHD on the 29.5.19
4	ATMA	Convergence of programmes, Diagnostic visit, Meetings	• Jointly organized National Productivity Day at Mootyrchiah village. Total no. of farmers: 48 • Awareness Programme and Diagnostic visit on Fall Army Worm at Khanduli village on 22nd May, 2019. Total no. of farmers: 151 • SMS (AH&Vety.) attended ATMA Block Meeting at Latyrke on the 29. 5.2019 • SMS (Fisheries) attended BTT meeting on the 29th May in the Office of the Project Director,ATMA Khliehriat, East Jaintia Hills
5	District Veterinary Office, West Jaintia Hills District, Jowai	Convergence of programmes, Training	• Launching of the National Animal Disease Control Programme and Vaccination at Sabah Muswang village on 11.09.2019 Total no.of farmers: 101

6	NABARD	Convergence of programmes, Participation in meetings	• Collaboration programme on Jal Shakti Abhiyan cum Kisan Mela on indigenous crops of Jaintia hills on the 30.10.2019 at Jowai Total No.of farmers: 90 • SMS (AH& Vety.) attended 5 days Training of Training Programme on Social Enterprise: Development and Management during September 16th to 20th, 2019 at NIRDPR-NERC, Guwahati • Exposure visit to NOFRI, Tadong, College of Agriculture Engineering and post-harvest technology, Ranipool and NRC on Orchid,Pakyong, Sikkim under CAT Programme sponsored by NABARD • Participated in the meeting on the preparation of DPR organised by DDM, NABARD Jaintia hills at Ialong village
7.	SOCIETY FOR URBAN AND RURAL EMPLOYMENT	Demonstration, training , lectures	• Demonstration, training , lectures

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2019-2020

Sl. No.	Name of special program	Major Activity	Duration and Date	No. of participants	Special Dignitary (pl. mention the name if any)	Funding agency/ Sponsoring orgn.	Amount (Rs.) received
1.	National Animal Disease Control programme Nationwide Artificial Insemination Programme	Vaccination of cattle	11.09.2019	144	District Veterinary Officer, West Jaintia Hills	ATARI	15000
2.	Tree Plantation Program Cum Farmers Seminar	Tree plantation and distribution of fruit tree saplings to farmers	17.09.2019	68	MDC, West Jaintia Hills	IFFCO, Guwahati	10000
3.	Launching of Fertilizer Application Awareness Programme	Training programme	22.10.2019	137	MDC, West Jaintia Hills	ATARI	50000
4.	Training Programme	Training Programme on Social Enterprise: Development and Management during at NIRDPR-NERC, Guwahati	16-20.10.19	-	-	NABARD	4000

5.	Exposure visit	Exposure visit to NOFRI, Tadong, College of Agriculture Engineering and post-harvest technology, Ranipool and NRC on Orchid,Pakyong, Sikkim under CAT Programme	24-27.10.19	20	-	NABARD	1,24,000
6.	World Soil day cum Rabi Campaign 2019	Exhibition of horticultural crops vegetables	05.12.2019	94	MDC, West Jaintia Hills	ATARI	80000

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No: **Yes**

Sl. No.	Programme	Nature of linkage	Remarks
1	Farmers field school	Resource person	SMS took part as resource person
2	Training for rural educated unemployed youth	Resource person	SMS took part as resource person in training for rural educated unemployed youth
3	Skilled training for rural youth	Resource person	SMS took part as resource person in the Skilled training for rural youth
4	Celebration of important days	Collaboration	Jointly organized National Productivity Day
5	Diagnostic visits	Experts	Diagnostic visit to farmer's field

6	Demonstration	Resource person	Resource person in training programmes & collaboration of programmes

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
-	-	-	-
-	-	-	--

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
-	-	-	-
-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit (Name and No.)	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety/ species/ breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	-	-	-						
2	-	-	-						

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-
Any other	-	-	-	-	-	-	-	-	-
Pulses									
Green gram	-	-	-	-	-	-	-	-	-
Black gram	-	-	-	-	-	-	-	-	-
Arhar	-	-	-	-	-	-	-	-	-
Lentil	-	-	-	-	-	-	-	-	-
Ay other	-	-	-	-	-	-	-	-	-
Oilseeds									
Mustard	-	-	-	-	-	-	-	-	-
Soy bean	-	-	-	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-	-	-	-
Any other	-	-	-	-	-	-	-	-	-
Fibers									
i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
Spices & Plantation crops									
i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
Floriculture									
i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
Fruits									
i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
Vegetables									

i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
a. Others (specify)									
i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	**Name of the Product**	**Qty**	**Amount (Rs.)**		**Remarks**
			Cost of inputs	**Gross income**	
-	-	-	-	-	-
-	-	-	-	-	-

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST		
				Male	Female	Total
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	

6.6. Utilization of hostel facilities (Month-Wise)

Accommodation available (No. of beds):

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total					

Note: (Duration of the training course X No. of trainees) =Trainee days

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute			
With KVK	Meghalaya Co-operative Apex Bank	Shillong Main Branch	1710000244033259
Revolving Fund			

7.2 Utilization of funds under CFLD on Oilseeds and Pulses *(Rs. In Lakhs)*

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2019
	Amount	Amount	Amount	Amount	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during January-December, 2019

Sl. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	100.00000	100.00000	95.67233
2	**Traveling allowances**	2.50000	2.50000	2.50000
3	**HRD**	0.75000	0.75000	0.34840
4	**Contingencies**	14.50000	14.50000	11.65854
Office Contingencies				
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
Working Contigencies				
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses			
F	On farm testing (on need based, location specific and newly generated information in			

	the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		117.75000	117.75000	110.17927
B. Non Recurring Contingencies				
1	**Works**	50.00000	50.00000	50.00000
2	**Equipments including SWTL & Furniture**			
a.	Need based equipmentsas per EFC approved list of equipments approved	0.30000	0.30000	0.30000
3	**Vehicle** (Four wheeler, please specify)	0.00000	0.00000	0.00000
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		50.30000	50.30000	50.30000
C. REVOLVING FUND		0.00000	0.00000	0.00000
GRAND TOTAL (A+B+C)				

7.4 Status of Revolving Fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance with KVK (in lakh)
April 2015 to March 2016	Nil	Nil	Nil	Nil
April 2016 to March 2017	Nil	Nil	Nil	Nil
April 2017 to March 2018	Nil	Nil	Nil	Nil
April 2018 to March 2019	Nil	Nil	Nil	Nil

Note: No KVK must leave this table blank

Sd/-
(Signature)
Sr. Scientist cum Head
KVK Jaintia Hills